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Veterans

Of the war by the thousands have tested Hood's Sarsaparilla themselves and in their families, and found it to give perfect satisfaction. For many of the diseases contracted in army service it has proven an efficient remedy, and we have received many letters from ex-soldiers telling of the cures it has accomplished. It is undoubtedly the best remedy before the public for any disease arising from or promoted by impure blood or low state of the system.

Mr. Albert Estes, a well known member of Post 102, G. A. R., living at 28 East Pine Street, Lowell, had a severe running sore come on his leg, which spread till at one time it covered a place six inches long by three or four inches wide. After suffering with it about a year, he decided to try Hood's Sarsaparilla. The sore soon began to grow less, and in a few months entirely healed, leaving a large scar. His blood seems to be thoroughly purified, as he has had no indication of humor since, though seldom free from it before taking the medicine. He found Hood's Olive Ointment of great assistance in cooling and healing the sore.

Everybody needs and should take a good spring medicine, for two reasons:

First. The body is now more susceptible to benefit from medicine than at any other season.

Second. The impurities which have accumulated in the blood should be expelled, and the system given tone and strength, before the prostrating effects of warm weather are felt.

Hood's Sarsaparilla is the best spring medicine. It purifies the blood. It sharpens the appetite. It tones the digestion. It overcomes debility. It builds up the whole system. Try it and you will be convinced of its superiority.

"Last spring my whole family took Hood's Sarsaparilla. The result is that all have been cured of scrofula, my little boy being entirely free from sores, and all four of my children look bright and healthy as possibly can be. I have found Hood's Sarsaparilla also good for catarrh, with which I have been troubled since the war. Nothing did me so much good as Hood's Sarsaparilla." WM. B. ATHERTON, Passaic City, N. J.

Purify Your Blood

One of the most severely afflicted sufferers from rheumatism we ever met is Mr. Henry T. Balcorn, of Shirley, Mass. He was in the army, being most of the time in Louisiana, where he contracted the disease which has since caused him such terrible suffering. When he returned home, he began to have periodical attacks of rheumatism, which gradually increased in severity, until he was obliged to give up manual labor, and in 1876 he became a helpless invalid, unable to walk or even to move a hand to help himself. For several years he found nothing to give him relief. He then began to use Hood's Sarsaparilla, and it did him more good than anything he ever took. Soon after taking Hood's Sarsaparilla he was able to walk across the room *without crutches*, and in a few months was able to walk all about the house without any aid.

"After my service in the late war I was seriously troubled with biliousness and sour stomach. I tried various remedies, but found no permanent relief till I took Hood's Sarsaparilla. I had previously had no appetite, and nothing tasted good or natural. Within a week my appetite began to improve, my headache left me, my strength seemed to be renewed, and I felt better in every respect." C. L. BABBITT, Syracuse, N. Y.

Capt. J. P. Thompson, a member of Post 42, Lowell, and the popular register of deeds for Middlesex County, says: "As a tonic I have never found anything that hit my wants like Hood's Sarsaparilla. It tones up my system, purifies my blood, sharpens my appetite, and seems to make me over." Thousands give similar testimony. Now is the time to take

Hood's Sarsaparilla

Sold by all druggists. \$1; six for \$5. Prepared by C. I. HOOD & CO., Apothecaries, Lowell, Mass.

100 Doses One Dollar

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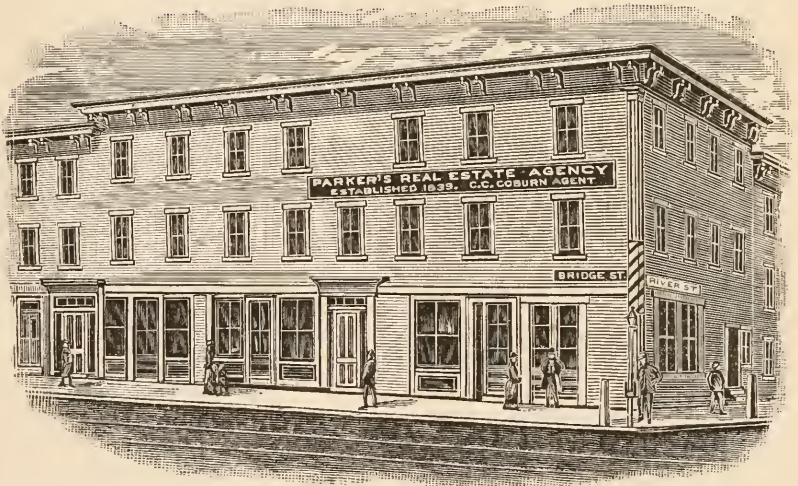
100 Doses One Dollar

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CORNER OF BRIDGE AND RIVER STREETS,

LOWELL, MASS.

THE BIVOUAC.

PUBLISHED BY DIRECTION OF

BENJ. F. BUTLER POST 42, G. A. R.

LOWELL, MASS.,

IN CONNECTION WITH THE

BAZAAR IN AID OF RELIEF FUND,

MARCH 8, 9, 10, 11 AND 12, 1886.

EDITORS:

Comrades, GEO. A. MARDEN,
EDWIN W. THOMPSON.

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THE BIVOUAC.

LOWELL, MASS., MARCH 8, 1886.

AS FOR OURSELVES.

We rather think it will be generally lottery business—from the inside. acknowledged that our Bivouac is Luckily the outsiders caught on with somewhat unique as a periodical—if zeal and efficiency. We shall probably make more money than we could that may be called a periodical which bly have made with a lottery—this time. appears but once. We comprise How it will be next time will depend. some distinguished names on our roll Up to date, however, “honesty is of contributors, the most valuable of the best policy.” which (to our cause) are those which net us a dollar a line in the statistico- But may we not say also that the historical, or the historico-statistical, old, old story of self-sacrifice, patriotic devotion, brave endurance, and department of the magazine. heroic performance is not, and never

We had a purpose in establishing this magazine; it was—\$500 net. will be, so old as not to wake the We can tell better whether we have sympathy of the great public for accomplished it when we have paid those who have it to tell? We said our debts as we have collected of our so. We believed so. Does not the debtors. We have no continued whole history of the Bazaar and the stories, except the great semi-centennial Bivouac back us up? serial, which will be carried “The Bivouac” catches on to the further by our successors in 1936. semi-centennial celebration of our

Our Bazaar is a good deal of a good city of Lowell. It presents an success. It is a protest against the instantaneous pen picture of her as

she existed on the first day of March, 1886. It is a picture well worth preserving as a contribution to local history.

And there is enough, in a literary way, for a setting for the picture, to make it all the more valuable. Our contributors include some of the first names of contemporaneous literature, and from the first page of the cover to the last page thereof, there is much to interest, instruct and amuse.

AN EPISODE OF THE WAR.

Shortly after my appointment as Consul for Venice in 1861, I was notified by the Department of State that the salary of the post had been raised from \$750 to \$1500 a year; and I was given indirectly to understand that the increase was due to an expectation on the part of the government that I would be peculiarly efficient in preventing rebel privateers from preying upon American commerce in that part of the Adriatic. I had not a moment's hesitation in accepting the increase upon these grounds, for at twenty-four one feels himself equal to anything; and besides, I did not believe that any privateer would come near Venice. In my heart I rather hoped that one night, for as Austria had never recognized the Confederates as belligerents I thought it would be very simple to capture such an enemy if she put into the Venetian port. The Captain of the Port would require her to deposit her papers with me, as American consul, and then I should merely refuse to give them up, and the privateer would rot in the Basin of St. Mark. In view of all this, I held several interviews with the Austrian authorities, in which I had it all my own way, as one always does, in these affairs of the imagination. By the same easy process, I had myself specially complimented for my zeal and sagacity by President Lincoln; I had my name mentioned in Congress; I caused myself to be celebrated in all the leading journals of my country. At twenty-four these things are perfectly practicable, and I found them so long before I arrived in Venice.

Actually there, I gradually forgot all about the privateers, finding all my energies engrossed by the desertion of a single sailor from a tobacco-ship. A matter of two whole years passed in false security. The Confederacy presented itself in no more formidable shape than that of a poor fellow from one of the seceding States who had got a Washington passport on condition that he should present himself to the American Consuls wherever he found them. I did not treat him with great rigor; I rather liked him.

One day when I came back from my bath at the Lido, I found a tele-

gram awaiting me at my house, and, tearing it open with the feverish haste which a telegram merited in those days, I found it a dispatch from Hon. George P. Marsh, then Minister to Italy, and residing at Turin, in which he notified me that a rebel privateer had been seen off Ancona, and urged me to be vigilant.

Upon the whole, I found this disagreeable; and I was sensible of a wish that this particular privateer had gone somewhere else to be captured. But I suddenly thought of the American Minister at Vienna, Hon. J. L. Motley, the historian, and I telegraphed him the substance of Mr. Marsh's dispatch, asking for instructions from him as my diplomatic chief, for Venice was then an Austrian port. I foresaw that I should have to share the glory with Mr. Motley, but I was willing to do this, if he would share the responsibility with me.

Mr. Motley telegraphed me back to keep him constantly informed of the privateer's movements.

I passed a day of wild excitement. Even at twenty-six, the age which I had now reached, it is difficult to keep from crossing the river before you come to it; and I dramatized a thousand scenes of turbulent action in regard to the privateer, which I wished all the time at the bottom of the sea. I beheld her steaming up the Lagoon; I witnessed the now familiar passage in which the Captain of the Port required her Commander to deposit her papers with me; I was privy to the disgraceful efforts of the

British Consul to befriend the rebel captain, and I quarreled for life with my dear old friend the British Vice-Consul for his share in the outrage. Then I saw the rebel captain sullenly presenting himself in my office; and I was deeply affected by the gentleness mixed with dignity of my own behavior toward him; I would not insult a helpless foe. The privateer was my prize; she rotted in the Basin of St. Mark.

It was all enormously successful, in the imagination; and yet I was not happy. One point troubled me. What if the Captain of the Port should *not* require the rebel commander to deposit his papers with me? Well, then, I must telegraph the Minister and keep telegraphing him. I myself could do nothing.

But all the same I should be humiliated by the insolent presence of the privateer in the port. If she chose, she could coal up, and steam out of the Lagoon again. The thought was insupportable; I could scarcely keep myself from going to the Captain of the Port and putting the case of a hypothetical privateer to him. I could only forbear by dint of remembering that Mr. Motley had merely instructed me to keep him informed.

I now wished that he were in Venice, with immediate charge of the case; I was now willing that he should have all the glory; I was no longer selfish about it.

This was the mood in which I fell asleep that night. But the next morning I woke with fresh courage. I saw clearly, as I had seen at first,

that Austria having in nowise recognized the Confederacy, the Captain of the Port *must* treat the privateer like any American vessel, and put her in my custody. It did not occur to me with equal force that the privateer captain probably knew this as well as I did; and I burned with the desire to have her steam up the Lagoon. My objections to letting any one else share the glory renewed themselves.

In this state of mind, which I still feel was characteristic, I received a second dispatch from Mr. Marsh:

"Rumored appearance of privateer off Ancona mistaken."

Now, indeed, I felt my loss bit-

terly. There was no trouble I would not now have taken to secure that confederate privateer, no difficult and precarious encounter of diplomacy which I would not have welcomed. But with that fatal telegram all my hopes of glory were gone, and what was worse, I could not help feeling that my reluctant and anxious mood of the night before had somehow a great deal to do with the sudden disappearance of my prey. I felt that if I could have been faithful to my original dramatization of the affair, I should have had that privateer in my hands. But possibly this was not so.

W. D. Howells.

AN EVENT IN THE HISTORY OF THE MISSISSIPPI SQUADRON.

Among the bravest and coolest officers of the Mississippi Squadron during the civil war, were the steam engineers.

These men entered the navy "for the war," giving up their private business to assist the government in maintaining the honor of the flag which they had been taught to reverence, and one and all were willing to lay down their lives rather than see a single star of that dear old emblem effaced.

Though the engines and boilers in most of the vessels of the Mississippi Squadron were entirely unprotected, the engineers seemed to know no fear. They had been accustomed to sitting on the safety valve when

their vessel had been carrying two hundred and fifty pounds of steam in racing. They had been accustomed to having steamers burned under them, when they would land their passengers at the nearest bank, blow off steam, and be the last to leave their posts.

The deeds of daring of these men in civil life were repeated during the war, for they became fitted during peaceful times for almost anything that might occur during the dreadful troubles that were forced upon the country.

The incident I am about to relate is in reference to one of these brave men, Acting Chief Engineer Thomas Doughty, whose exploit, though little

noticed at the time, deserves a place in the naval history of the war.

Mr. Doughty was attached to the U. S. Steamer Osage, A. V. Lieut. I. P. Couthouy commanding, which, in October, 1863, was blockading the mouth of Red River, Louisiana. At that time Confederate steamers were in the habit of bringing provisions down the river to a point near the mouth, reshipping their provisions in boats which could slip through the bayous to the Mississippi and supply the Confederate troops at Port Hudson and other places with food.

Mr. Doughty undertook to head an expedition to capture one of these steamers, and accordingly, taking with him twenty men, he proceeded overland to the point on Red River where the steamer was expected. On his arrival he could see no trace of the steamer. He divided his party, sending eight men down river to examine the bend below, and with the other twelve started up the stream. After travelling half a mile he saw the chimneys of a large steamer, but unfortunately she was on the other side of the river.

The woods were dense and the men had infinite difficulty in forcing their way through them. The only alternative now was to get above the steamer, swim the river and try to capture her.

Doughty and his little band succeeded in getting half a mile above the steamer, and stripping off their clothing, which with their arms they placed on their heads to keep them

dry, they swam the river with a three-knot current sweeping them down, and landed about a hundred yards above the steamer.

Creeping up upon the Confederate vessel they captured her with a rush. A few moments later another vessel was heard coming down the river.

Mr. Doughty concealed his party in the bushes, and, as the steamer approached, she was hailed, and ordered to come in to the bank. The order was obeyed, and Doughty found himself master of two large steamers and a number of prisoners much exceeding the strength of his own party. As it was impossible to get the vessels out of Red River owing to the low water, he set fire to the "Argus," the first one captured, and embarked on board the other, named the "Robert Fulton," and steamed down to the landing where he first struck the river.

Here the Fulton was set on fire, and in a few moments was one mass of flames. These two vessels were valued at \$125,000.

Thus was this large amount of Confederate property destroyed in a short time by this brave officer and his little party.

These steamers generally carried a company of troops on board, but Chief Engineer Doughty and his men, regardless of any such arrangement, never hesitated a moment in risking their lives for their capture.

The captains and crews of the steamers, together with an army

officer, were marched off as prisoners and delivered on board the Osage.

Although this may perhaps seem a small affair, yet the arduous march through the dense forest, the swim-

ming of the river, and the clever tactics of the commander of the expedition, his coolness and daring, all combine to make this little raid worthy of remembrance.

David D. Porter.

OUR WASHINGTON LETTER.

[From our Regular Correspondent.]

Dear Bivouac:

It is now the twenty-fifth year since you in the ranks of the 6th Regiment came to Washington, fighting your bloody way through the streets of Baltimore, and gave the country assurance that its capital was safe. If I remember aright, you made your headquarters under this dome, and probably you and your comrades came often into this very hall, and sat in these seats, and held mock sessions (we beat them now all hollow), and were not disturbed with the slightest veneration for this shrine of undiluted and unfailing American oratory.

I think of you as I sit here trying to respond to your invitation to write something for your Soldiers' Bazaar. I think of the changes that have been wrought in the intervening time; of your full ranks then, of your thinned ranks now; of your youth then, of your added years now; of the spirit and hope which then seemed a defiance of all the burdens of life, and of the hearts that since then have ceased to beat,

the lives that have been sacrificed for their country's sake, the sorrows and privations that have come to some of you, so that the rest, appealing not in vain to a generous and grateful community, are holding a Bazaar to raise money to make the way a little easier for the tired feet.

Nothing can compensate you in full for the service and the sacrifice; but it is some compensation, and not the least, to feel that that service and sacrifice were not fruitless, and that through them came the victory of universal freedom, the unlocking of the shackles of the slave, the restoration of the divided Union.

Were you here today you would see the evidences of your triumph—not in any carnage of battlefield, not in the exultation of the flush of triumph, but in that peace which the great Grant invoked as magnificently as he fought the war of which it was the flower and fruit.

In these seats you would see representatives from every state in the Union; side by side the Union and the Confederate soldier; here an

empty sleeve and there the stock of a wooden leg ; and over the Speaker's desk the Stars and Stripes of the American flag—no part of it erased or obscured—the emblem of the great Republic which you preserved, and whose glory is forever intermingled with your patriotism.

Sincerely yours,

John D. Long.

House of Representatives, Feb. 23, 1886.

ARCTIC TRAVEL.

No person who has not travelled over the broken, moving pack of the Arctic ocean, has any idea of the labor of transporting oneself and the necessary equipment of food, clothing, camp-equipage, sledges and boats. I cannot conceive of anything that will give my readers an adequate idea of the roughness of the pack, except to compare the whole of the surface of the ocean to the roofs of a great city, like New York or Boston, with all of its streets removed, and the houses crowded up against each other, so that in travelling over the surface of the pack, one might suppose he was travelling across the housetops, with all the domes and spires of churches, State House and other large buildings represented in ice, and the large stores and buildings toppling over the smaller ones.

Now, suppose a party of thirty men, with all the equipment enumerated, amounting to three hundred pounds per man, to have to transport this weight over the rough, broken, gelid, slippery surface first described, a distance of three hundred miles. before we could launch our boats, and five hundred miles to our nearest possible point of succor, and you can form some idea of the difficulties of the march that lay before the intrepid band of men who stood by their ship until she left them, and then, with ninety days' supplies, at the rate of one-half pound of bread and one pound of pemmican per man per day (one and one-half pounds of bread and meat), with pickaxes, axes and shovels commenced to dig a road from where they were cast away, three hundred miles to open water, and five hundred miles to the coast.

We started about the middle of June, when the sun was twenty-four hours in the heavens, so that we had constant day. The snow was of all depths, from a couple of feet, in places, to a depth up to our arm-pits. This snow was soft and soggy, so that boats and sleds would bury in it until they had to be dug out, and the road cleared before them, the ice chopped and picked away to make a road. The whole of the first day's march was occupied in moving one boat about three-fourths of a mile, all the rest of the baggage, consisting of two other boats and five sleds loaded with provisions, being moved not more than two hundred yards, and that with the greatest difficulty

and labor, and then only to save them from total destruction and loss from the breaking up of the floe.

For laying out a line of retreat, a series of black flags were set up, and the party advancing the loads simply kept the flags in sight and followed out the sinuosities between the hummocks and ice masses, cutting a road through the rough places, and knocking a great corner off a hummock to let the boats or sleds pass along a narrow and steep projecting cliff. At times by starting hauls with the whole force, a boat mounted on a sled would be hauled, a couple of men standing in the rear with "spur shores" to hold the boat and sled in place, to prevent its coming back down the inclined plane, until finally the apex of the ridge is reached, and then, by as careful handling, boat and sleds are worked down in safety to a plane below; for were they to get away from us, as they sometimes did, they would go rolling and dashing to the bottom of the incline, and be buried in the snow or water, and greatly damage the sleds.

Thus we were obliged to work along at times, walking a mile to advance a single sled one hundred yards, and in moving our eight pieces of baggage during the first three weeks of our march, we marched our ground over thirteen times in order to make our distance good, and at night (or in the morning rather, for we worked all night and slept during the day) we considered we had done a good day's work if we advanced our effects two miles, and had trav-

elled from twenty-six to thirty miles to accomplish that feat. As it will be observed, we advanced our baggage one piece at a time, except two light sleds that were moved at one time. This gave us seven advances with our loaded sledges, and six returns over the same course empty-handed. Add to this the fact that the ice was in constant motion, making many ferriages necessary, or the building of ice-bridges by floating masses of ice into position, then filling in the space by throwing in lumps of ice, or chopping hummocky masses that fell into place, and then, with a rush and a yell, we run the sleds across our frail floating bridge, the whole party at times plunging into the frigid bath of ice and water, the others, more fortunate, on the lead of the drag-rope getting across dry, and hauling the others out by continuing to haul away on the drag-rope, sled and all coming through all right. Then all hands would strip and wring out their wet clothing, put it on, and continue the march or labor of the night. Thus we toiled from seven p. m. until seven, eight or nine a. m., having had one hour at midnight for refreshment, consisting of a pint of hot tea, three ounces of bread and five and one-third ounces of pemmican per meal. This ration continued for eighty days, when our bread gave out, and then our daily ration consisted of one and one-half pounds of pemmican per day, and so continued until the end. Our rations during the first sixty days were supplemented by a small allow-

ance of sugar, and beef tea enough to make a pint of hot beef tea at midnight.

As the sun grew strong on the floe, the snow began to melt and flooded the floe, so that at times we marched all day long in water, varying in depth from ankle deep to hip deep; and during all this time there was not an officer or man of the working force that was not wet from his hips down; and when the boats and sledges were ranged together for the day after the labor of the night, and we had made our camp on a dry spot of ice, set up our tents and filled the inside with snow to make our beds soft, and wrung out our wet clothing, we patched our worn out and tattered moccasins. We made mats to cover the soles of our feet, and patches of our knapsack straps by sewing them together to get little patches to sew

on our ragged moccasins at the heels and balls of our feet, and made wooden soles for our moccasins, too, repairing and relashing our sledges before going to sleep in our saturated sleeping bags; yet no man murmured at his lot, every officer and man that was on duty doing his share of the labor. The only persons who did not wear out their moccasin soles were they who were sick, or the man who shirked his duty on the drag-rope and would not pull. In fact, that was the way in which two or three of the men were spotted as shirks and met with deserved rebuke from their comrades.

Still these men worked on, and in the end lost eighty-six per cent. of their party, who died by the roadside doing their duty by each other, and had the honor and glory of their country at heart.

Geo. W. Melville.

AROUND THE BIVOUC FIRE.

[See Illustration on Cover.]

We had all been telling stories, as we sat around our fire and coffee, while Charles Grenville toasted his bit of pork, telling of the firesides we had left long enough ago to wish we were back safe in the snug homes. We were not all married. Charlie had a sweet wife and two merry little boys waiting for him; he was a good, steady man, rather sober and given to solemn thoughts, but withal one of those earnest men striving always to do the right. When he spoke his

voice was penetrating, and in it was a tone that seemed seeking for the truth in the listener.

We all felt that Jack Dawes was our clown, and we named him "the king's fool." We said if it had been allowed he would have carried his gun under his arm and his hands still in his pockets; he was seldom out of that, his favorite, attitude. He was a jolly, good-natured, make-the-best-of-everything man, always ready to laugh. He had at home, singing

the hours away, a roly-poly German lassie. They loved each other truly, but when duty called love surrendered, and Jack went to war.

And "Miss" Ned—that was the name we gave Ed. Moreley—was a ladies' man, and had three or four sweethearts not a thousand miles away, each of whom had in safe keeping and in ignorance of any other claim, a curl of this dandy's light perfumed hair. We admired Ned; he was smart, and had a refining influence about him that fellows always need away from home.

Frank was "our boy." We loved him. His feeble old mother, Mrs. Danforth (she lived in the little white cottage on Locust street), clung to him and laid her tired head on his young shoulder, and prayed that her boy might be kept from temptation and delivered from evil. I tell you that was a sad parting, and we have all looked out for "Our Frank" to take him back to his dear old mother.

I am the bachelor listener and find the log too comfortable after our tramp to say much about my mother and my girl.

Frank was the talkative one. He and Jack always kept the ball rolling, and when they got it rolling a little too fast, and Ned puffed away a little harder, after curling those moustaches vigorously, Charlie would call out:

"Ben, what about tomorrow?"

That made us all still, for we didn't know beyond today.

We had had some rather hard days

during our march from the camp, where we had spent the winter and early spring, and now that we had a moment of rest and comparative comfort after a fair day's march we were willing to make the most of it.

As I sat there with some of the best fellows the sun ever shone on many thoughts passed through my brain. I thought of the future of some of the men. I wondered if Jack for a moment, behind his grinning front, and under his swaggering air, considered the danger, and was braving himself for action, which must come soon. If, when the fight came, he would plunge in with a shout and a laugh, just as the merry bathers plunge into the sea—to come out or not to come out—that was the question for us all.

Ned was a conundrum — white-handed and pretty-faced—what would the hearts he had won avail in the time of battle? These he could not control as at home, and I fancied I saw a look of sadness on his face. No, I was mistaken, 'twas a look of determination, shrewd and clear. Charlie was older; he could take care of himself; he had been through a large part of the struggle of life, but he was sober, aye, even sad today, and paid no heed to the banter of our merry Frank.

The boy was questioning and joking, and always full of life. It was well. Were not the mother's good wishes following? Was he not depending on a strength greater than his own? And I, Ben Southwell, what was I? and here my attention

was attracted by a question of terrible day, but his "German lassie" Frank's. cared not for hands but hearts, and they still sing the old songs in their little cottage home.

What was it?

This was the night before Chancellorsville, the last bivouac fire we ever sat around together. A shell from a rebel battery across the river interrupted Frank's question, and the order came to put out the fires. Then all was quiet until the dawn of that awful day when Stonewall Jackson made such havoc with the Eleventh Corps. Then Charlie disappeared and never again came home. His grave is remembered on Memorial Day when the resting place of the "unknown dead" is spoken of. The waiting wife is living comfortably on a pension and the help of the two boys, who hold places of honor and trust in our Commonwealth.

We helped carry Frank to the rear, thinking him dead; but after six months' good care of the hospital nurses he returned as a convalescent hero at once to the pain and joy of his mother. Today he is a Judge on the Supreme Court Bench of the Commonwealth.

"Miss" Ned distinguished himself that day; the Boston Journal despatches said, "promoted for gallant conduct on the field at Chancellorsville." Ned saved all that remains of me. I am minus a leg. I sketched this Bivouac scene on the back of an envelope that night, and if you will call—any day—at the Boston Custom House I will tell you more of that dreadful "tomorrow."

Jack had but one hand after that

Mary A. Batchelder.

THE BIVOUAC.

I.

The bugle sounds for a halt at last,
And the column wheels into lengthened line;
The guns are stacked, the batteries parked,
And quickly the lights of camp-fires shine.
The white of a tent shows here and there,
But much of a camp the scene must lack,
For the order comes to each command—
"The troops will lie in bivouac."
Around the fires the men are grouped,
Their war-worn faces brown and tanned,
But the shots they hear from the skirmish line
Tell more to them than the stern command.
They tell that the foe has been met again—

Of an anxious wait or a bloody fray.
 Of doubt and danger, of death, perchance,
 And this is the bivouac halt by day.

II.

Through rifted clouds the moon looks down
 On wood and plain with searching ray;
 But where is the sheen of the shining steel
 That reflected the light of the dying day?
 Gone is the line of the gleaming stacks,
 The fire is quenched in the half-burned brands,
 Like blanketed mounds the soldiers lie,
 With the rifles close to their ready hands.
 The battery guns on the hills above
 Are silent as death, and covered all
 In shapeless masses of sombre shade
 The shadows of gun and caisson fall.
 Silence and night, and a dread repose
 That waits but a shot of the foe's attack
 To rise in a wave of fire and steel—
 'Tis the army in midnight bivouac.

III.

Noonday splendor and soft moonlight,
 Flush of morning and starry glow
 Blaze and brighten, and faint and fade,
 Over the army that lies below.
 Side by side, and rank on rank,
 Waiting no sound of the battle day,
 Each in his blanket of grassy mould,
 Sleeping the years of peace away.
 Headstones lifted like fingers white
 Point where the record is filled and shown,
 Of heroes laid with the nameless dead,
 Honored alike, but alike "unknown."
 Flowers will bloom where their rest is made,
 Sunlight and shadow above be spread.
 Only the God who called the halt
 Waketh the bivouac of the Dead.

IV.

Watching and waiting to hear the voice—
 The voice of the people to whom we plead
 In the name of those whom the dead have left
 To our loyal care in their hour of need.
 Watching to see if the promises made
 While the hour of victory held away,
 Promises made to the bivouacked dead,
 Are writ on the tablets of hearts today.

Watching the hands that Peace has filled,—
 Filled with the wealth of a golden store;
 Watching to see those hands unclasp,
 And by their giving gain the more.
 Waiting to hear the answer come —
 Come as we trust and believe it will:
 “The promise made to the honored dead
 Is the pledge of the loyal people still.”

* * * * *

This our bivouac, and we wait
 The knock of Plenty at our gate.

E. W. Thompson.

ESQUIMAU ECONOMY.

The Esquimaux, male and female, like the natural, uncultivated members of the genus homo all over the world, are governed by their natural instincts—to live, to eat and to have their being. Some of my readers might ask, and with truth, too, “how much more does cultivated man get?” I grant you, in the abstract, not much.

But the peculiarity of the Esquimaux is in getting so much out of nature. Cold, bleak and inhospitable is the region in which he lives, and nearly half of his time is spent in darkness. Yet he courageously battles with nature, all the odds against him, except his wit, and knocks out an existence where men born in any other clime would fail.

With an ivory pointed spear on the end of a wooden staff, made up at times of more than a dozen pieces of wood bound together in the most ingenious manner (for the only wood they get is that which is carried to them by the winds and currents of the

ocean), they attack, single-handed, the polar bear, an animal of no mean proportions, that with one stroke of his paw can kill a man. Though ungainly in appearance and gait, the bear is active beyond measure. The Esquimaux attacks the walrus in the same manner, and with the same weapon, depending upon the lightness of his tread or antics imitating a seal that he may crawl upon his prey unawares; and when hard pressed for food he has been known to stand, or sit, on a piece of ice in midwinter, watching a seal hole in hopes of capturing his prey, for forty-eight hours without relief.

The ingenious manner in which he makes a hand-net for the capture of birds in the summer time, with no other material at hand than the skin or intestines of the animals of the chase; the patience with which he will grind a walrus tooth upon a rock into a spear-head, and again with a small piece of stone pierce it with the necessary holes to set it upon the

staff, and secure it by a line twenty fathoms long, cut in one continuous line from the body of the walrus; their sledges made of hundreds of pieces of small wood of every conceivable shape, bound together by thongs and sinews, and braced with walrus ivory and bone, and the bones and horns of the reindeer—all these are matters for constant wonder.

The far northern Esquimau does not make or use the kyack of the south Greenlander, but takes his time and chances of crossing channels of water on the drifting ice, or by ferrying himself over on a cake of ice. Or he will wait, if necessary, for the channel to freeze over. I met Esquimaux from the west side of Baffin's Bay that had come up the east coast of North America, and had crossed Smith Sound, and were camped at Life Boat Cove, the Polaris camp near Littleton Island, on the west coast of Greenland.

The few tools they get by barter with each other come long distances, from the Danish settlements, or from the whale-men. There are bits of hoop-iron, fashioned into knives, a piece of tin fixed into a bone handle serving for a skin knife, a bone-scraper for dressing skins, or a piece of tin on the end of a small stick.

Their blubber lamp is fashioned out of a piece of soapstone that they are known to travel three hundred miles for. Their cook-kettles also are obtained originally from the Danish settlements or from the whale-men. These are valuables that are

handed down from generation to generation, although the kettles are at times common property in a community, for the main thing is to procure food, and when a supply is obtained all hands partake of the capture, and the kettle and food are common property. The ingenuity displayed in the building of their snow huts and tepees shows no mean capacity to suit ends to means, and the rapidity with which they accomplish this task is a wonder. The women in this work do their share, in fact as they do in all other except the chase. They generally cut the snow blocks in circular sections ten or twelve inches wide and eight inches thick, and carry them to their husbands, who build up the walls from the inside, and after the centre piece in the top is put in place, a hole is cut to let the builder out or to let his family in. A series of these huts are made to accommodate the family or community.

These snow houses are used only in the winter time. The tepees, made of dressed reindeer or seal skin hides, with the hair removed, are all prepared and sewn by the women, many of them using an ivory needle made from a little splinter of walrus tusk, ground into shape, and the eye of the needle pierced by rubbing a sharp stone on either side of the needle, until the holes meet in the center, and leaving a groove such as we find in the eye of our large steel needles for our domestic use.

The preparation of the skins for tepees and clothing, as well as for

moccasins for the family, is no small amount of work, all of which is done by the women, most of it being done with their teeth; and the evidence of a thrifty housewife is often exhibited by her admiring and well-served husband, who, when recommending his wife or commending her to a visitor, will say, "Look at her teeth, they are worn to the gums in preparing the skins for clothing or moccasins."

Besides scraping the skin on the fleshy side to remove the flesh and oil from the hide by means of a bone or iron scraper, the women make them serve a double purpose: i. e., they roll a portion of the skin into a convenient wad and chew the hide, swallowing the oil and juices, thus dressing a skin and getting a certain amount of nourishment at the same time. In the same manner as soon as a man comes in from the hunt or any other service that has taken him away from home, his foot-gear is removed and the wet boots and deer-skin stockings are slowly dried before the oil lamp or next the woman's skin, and then, to keep them soft and to prevent shrinking, the chewing, rubbing and stretching process goes on, the most of which is done with the teeth. Besides this the oil that is used to start the lamp, before the fire can be started, is tried out of the blubber by the women chewing it and spitting the oil into a vessel kept for the purpose, after which oil sufficient is collected to start the lamp, and then the lamp is fed by the untried blubber.

This convenient mill is also used

to prepare a long and convenient sausage to coil around the shoulders of the hunter for an expedition into the interior or on a long journey. A long intestine of the seal is used, uncleaned, a knot is tied in the end, and the good wife, after masticating a fair proportion of fat and lean of the seal, bear or walrus, spurts it into the free end of the intestine; then by drawing the intestine through the fingers the sausage, meat is forced down to the end, and so it goes until the tube is filled, or the meat gives out, thus putting into a convenient form many days' rations that may be carried like a coil of rope across the head and shoulders.

Besides all this, and many other things, as in all countries under the sun, the women bear the children, too. During the time of birth, and for several days before and after this interesting period, they are isolated at considerable distance from the village or community, in a little snow hut if in winter, or a tepee if in summer, seeing no one, and on a few reindeer or bear-skins alone she brings forth her young, her food being pushed through a small hole in the bottom of the hut, until, after a number of days, she is permitted to rejoin the community.

And the babies are the dearest, prettiest little black-eyed darlings the sun ever shone upon, and the best behaved. I don't believe I ever heard an Esquimau baby cry, and I have seen many of them wrapped up in a piece of fawn or fox-skin, having

lain on their backs all day and mouth, and it will suck it, kick and kick and play with their toes, and if crow and be twice as good as any one gets hungry, mamma will push a white baby I ever saw. piece of nice fat blubber into its

Geo. W. Melville.

THREE SONGS FROM HEINE.

I.

O wondrous fair the month of May!
 When all the buds were blowing,
 And from this swelling heart of mine
 A wealth of love out-flowing.

O wondrous fair the month of May!
 When sang the whole bird choir,
 Told I to her, in burning words,
 My longing and desire.

II.

Fresh from my tears up-springing
 Sweet flowers adorn the vales;
 And sighs for thee become, love,
 A choir of nightingales.

When thou wast kind I brought thee, dear,
 Those flowers from the vales;
 And by thy window sounded forth
 The choir of nightingales.

III.

The rose and the lily, the dove and the sun,
 In wantonness loved I once every one.
 I love them no more, for I love alone
 The tiny one, fine one, divine one, my own;
 Since she is herself the source of all love,—
 The rose and the lily, the sun and the dove!

—*Translated by Jean Kincaid.*

LETTER FROM THE POET WHITTIER.

The following is a fac simile of a reply by Mr. Whittier to a request that he would write something for "The Bivouac":

Oak Knoll Dover

2^d Mo 23. 1886

Wm Geo. A. Menden

Dear Friend

It would be a labor
of love to do what you ask of me, but
age and illness and the overwhelming
pressure of correspondence, compel
me to decline engagements of this
kind. The poetical machine is out
of order and "the sound of the grind-
ing is low." It may seem a small
matter to build a rhyme as the
Irishman did his chimney by holding
up one ^{brick} and clapping another under,
but it is by no means an easy thing
when head and hand are tired with
sincere regret that I am unable
to write for your occasion I am
very truly, my friend,

John G. Whittier

THE CITY OF LOWELL.

INTRODUCTORY REMARKS.

The City of Lowell is now 50 years old. It is part of the aim of this volume to give a pen picture of her as she existed on the first day of March, 1886. We shall not enter on a long description of the city, but only give the salient points in regard to her as she is, on what is virtually her fiftieth birthday. We shall endeavor to show, with substantial completeness, who are the men that manage her chief corporate industries and her smaller manufactories, who are her clergymen, her lawyers, her doctors, her journalists, her teachers, her financial men, who are administering her municipal government, what her institutions are—in short, what she is. In future years, many will turn over these pages, and be able to recall therefrom all these facts and names, and we think they will be grateful that somebody has collected and arranged them.

It is proper that a semi-historical work like this should briefly tell how Lowell came to be what she is, and Mr. Cowley, in the following article, tells the story.

ORIGIN OF LOWELL.

BY CHARLES COWLEY, LL. D.

Lowell owes its existence to the abundant water power of the Merrimack and Concord Rivers. Pawtucket Falls on the Merrimack, and Wamesit Falls on the Concord, and the myriads of fish which sported and spawned in these waters, made this place a favorite rendezvous of the Indians, long before the Lowell family left their ancient home in Wales.

A hundred years ago, great quantities of timber from the forests of New Hampshire were sent down the Merrimack every year in rafts. To facilitate the transmission of these rafts, and the passage of boats, by the Pawtucket Falls, it was found necessary to cut a canal around these falls. This was done in 1796, by a company incorporated in 1792, called "The Proprietors of the Locks and Canals on Merrimack River." This canal is a mile and a half long.

Originally, the principal purpose of this company, and of their canal, was to make the Merrimack navigable for boats and rafts from above the Granite State line to Newburyport; but after another company opened the Middlesex Canal from the Merrimack River above Pawtucket Falls to Boston, in 1804, the need of the Pawtucket Canal for its original purpose was no longer felt; though it continued to be used for that purpose to some extent for many years.

In 1821 the founders of the Boston Manufacturing Company at Waltham—the precursor of all the great cotton manufacturing corporations whose factories now stud the banks of the Merrimack—had appropriated all the water-power of the Charles River, and they, and others who wished to engage in the cotton manufacture with them, were looking about for a more abundant supply of water-power. Through Paul Moody they learned from Ezra Worthen of the probable availability of Pawtucket Falls for their purpose.

In November, 1821, six of these gentlemen—Nathan Appleton, Patrick T. Jackson, Kirk Boott, Warren Dutton, Paul Moody and John W. Boott—visited East Chelmsford, where Lowell now stands, perambulated the grounds, and satisfied themselves touching the capabilities of the place for their purposes; and the remark was made by one of them, that perhaps a population of twenty thousand souls might yet be gathered here. A very moderate estimate, for the population of Lowell long ago exceeded three-fold that number.

These six enterprising gentlemen and their associates proceeded to purchase a majority of the shares of the stock of the Proprietors of the Locks and Canals, together with about four hundred acres of land adjacent to the river and the canal. They widened the canal to the width of sixty feet, and deepened it to the depth of eight feet. They also cut a lateral canal from the Pawtucket Canal to the Merrimack River's bank; and on that bank they erected their cotton mills.

In September, 1823, the villagers, who had sold their shares of the stock of the canal company for less than the par value thereof, saw with astonishment the Pawtucket Canal successfully applied to manufacturing purposes, and converted into "a potentiality of wealth beyond the dreams of avarice."

The water-shed of the Merrimack is 3,600 square miles. The vast volume of water accumulated from this wide water-shed falls thirty-five feet at Lowell, and thereby yields, at all seasons of the year, ten thousand horse-power, and at most seasons much more than that.

The Concord River has three falls at Lowell—the first being twenty-six feet; the second, eight feet; the third, ten feet—and yields nine hundred horse-power.

To state it roundly, Lowell has, from these two rivers and some smaller streams, water-power to the amount of about 14,000 horse-power.

A dam had been built across the Concord River as early as 1785, (not to mention wing dams of earlier date); and saw-mills, grist-mills and a fulling-mill were successfully operated by the water-power thus obtained.

What splendid success was realized in the cotton manufacture here is known to all. Company after company was incorporated, factory after factory was erected, until the whole water-power of the Merrimack, at least in the summer season, was exhausted.

Our principal manufacturing corporations are nine in number, and have an aggregate capital of nearly \$15,000,000. The greater part of their stock has always been held by non-resident stockholders. Still, much of this stock is owned in Lowell, and there are not a few small establishments owned wholly by residents of our city.

All the great textile manufacturing companies, with one exception, provide good boarding-houses for their female operatives. They thereby secure not only comfortable apartments and ample supplies of suitable food for their operatives, but also a watchful care of the conduct of those operatives, the matrons having these boarding-houses in charge forming the most efficient moral police conceiv-

able. Within a few years the efficiency of this police has been much diminished by the practice which now largely obtains among the operatives, of hiring sleeping apartments from private tenement owners, and merely taking their meals at the boarding-houses of the corporations. This is a departure from the system introduced by the fathers of Lowell, and would not have been tolerated in their day.

In any estimate of the grandeur of the designs of the founders of Lowell, it must not be forgotten that, while they knew all that had been done to improve the condition of the factory operatives at New Lanark, and availed themselves of the results there accomplished, they did not attempt to reconstruct society, like Robert Owen, Charles Louis Fourier, Horace Greeley, and the Brook Farm people, nor did they assume the role of the social philosopher or the philanthropic reformer. Yet when we contemplate the results actually achieved by them, in the establishment of manufacturing communities on the high social plane of Waltham and Lowell, we cannot fail to perceive that these results transcend any that have been accomplished by socialists since the days of St. Simon. Of New Harmony, Brook Farm, and the phalansteries of Fourier, only a memory remains; but Lowell herself remains; other manufacturing cities organized on the same plan remain, and will remain for ages to come. Other men, like Sir Titus Salt, have improved this system in some particulars. The town of Saltaire, with its hundreds of tenement houses owned by the sons of Sir Titus, is largely a reproduction of the "Waltham system," which is the Lowell system.

The purpose to establish for their employés better physical, intellectual, social and moral conditions than had previously existed among laboring men, was as sincerely cherished and as constantly kept in mind by the founders of Lowell, as if they had all been Platos creating a new Atlantis, or Mores establishing a new Utopia.

On March 1, 1826, the village of East Chelmsford, with about two thousand inhabitants, was incorporated as a town, and named Lowell. The celebration of the semi-centennial anniversary of this event, which took place ten years ago, is doubtless fresh in the recollection of our readers.

On April 1, 1836, the town blossomed into a city, Edward Everett, who had been the first to represent Lowell in Congress, signing the city charter as Governor, and Julius Rockwell, who still survives, full of years and honors, as Speaker.

As the city increased in wealth and population, schools, churches, banks, libraries, courts of law, and all the accompaniments of modern civilization were added: but the statistics of these institutions will not be looked for here.

Touching the great fact in the life of the people of the United States prior to the late Civil War—the legalized existence of human slavery—a large majority of the people of Lowell were, like a large majority of the people of other northern cities, content to let it alone, until it had not only menaced, but partially accomplished the dismemberment of the Union.

Down to the Civil War the events in the city's history were mostly of a commonplace character, but here is one that was not commonplace. On the sixteenth of September, 1848, a tall, gaunt-looking figure appeared at a whig caucus in the City Hall, and spoke for an hour on the political topics then prominent before the community. Strong common sense and the most genial humor—"charity for all, malice toward none"—characterized that speech (as well it might), for the speaker was none other than Abraham Lincoln. When, in April, 1861, the Presidential call was made upon the people of the North for troops to maintain the

union of these states, it bore the name of the homely stranger whose first and last appearance in Lowell was made at that whig caucus in 1848. To that call, and to every similar call in the four following years, the men of Lowell responded in a spirit of loyal alacrity, and the record of their patriotic valor is written in fire and blood from Baltimore to Appomattox.

As time rolls by, the memories of most of the men who have lived here, and of most of the deeds done here, will gradually fade into oblivion; but the memories of the fathers and founders of Lowell will long be cherished, because they were fathers and founders; and with them will live the memories of our soldiers and sailors, because of the sacrifices they made, the privations they endured, and the heroic courage they displayed in the defence of the Union. To most of us, sailors and soldiers, personal distinction, whether in life or in death, is, of course, unattainable, and even undesirable. Statues, monuments, the poet's pean, the historian's pictured page, are for the few. Always it was so; always it will be so. For us, let it suffice to rejoice to know that, as George Eliot says,

"We feed the high traditions of the world
And leave our spirit in our country's breast."

THE CITY GOVERNMENT.

In the fifty years of her history Lowell has had 25 mayors. The following is the complete list, with the dates of service of each:

Elisha Bartlett, 1836-'37.	Hocum Hosford, 1862, '63, '64.
Luther Lawrence, 1838 and part of '39.	Josiah G. Peabody, 1865, '66, '72.
Elisha Huntington, part of 1839, and '40,	George F. Richardson, 1867-'68.
'41, '44, '45, '52, '56, '58.	Jonathan P. Folsom, 1869-'70.
Nathaniel Wright, 1842-'43.	Edward F. Sherman, 1871.
Jefferson Bancroft, 1846, '47 and '48.	Francis Jewett, 1873, '74, '75.
Josiah B. French, 1849-'50.	Charles A. Stott, 1876-'77.
James H. B. Ayer, 1851.	John A. G. Richardson, 1878-'79.
Sewall G. Mack, 1853-'54.	Frederic T. Greenhalge, 1880-'81.
Ambrose Lawrence, 1855.	George Runels, 1882.
Stephen Mansur, 1857.	John J. Donovan, 1883-84.
James Cook, 1859.	Edward J. Noyes, 1885.
Benjamin C. Sargeant, 1860-'61.	James C. Abbott, 1886.

The present government consists of the following gentlemen:

MAYOR.

HON. JAMES C. ABBOTT.

ALDERMEN.

John F. Phillips.	Stephen B. Puffer.
George F. Penniman.	Daniel Wright.
Jeremiah Crowley.	James Francis.
Samuel D. Butterworth.	George E. Stanley.

COMMON COUNCIL.

WARD ONE.

Peter B. Sherlock.
 Thomas J. Enwright.
 Patrick H. Plunkett.
 Timothy H. Brennan.

WARD TWO.

Francis D. Munn.
 Walter M. Sawyer.
 Charles H. Richardson.
 James R. Fulton.

WARD THREE.

Edward D. McVey.
 Patrick J. Mahan.
 Thomas J. Sparks.
 Daniel Cleary.

WARD FOUR.

Frank W. Howe.
 George A. Roper.
 William A. Lang.
 Arnold S. Welch.

WARD FIVE.

Wilson W. Carey.
 Elwyn W. Lovejoy.
 Henry L. Newhall.
 Roswell M. Boutwell.

WARD SIX.

Charles H. Hobson.
 John E. Drury.
 Marcellus H. Fletcher.
 Lawrence J. Smith.

CITY OFFICIALS.

City Clerk.—Samuel M. Chase.

City Treasurer and Collector of Taxes.—Van B. Sleeper.

Auditor of Accounts.—David Chase.

City Engineer.—George E. Evans.

Superintendent of Streets.—Charles H. Hanson.

City Solicitor.—George F. Lawton.

City Librarian.—Charles H. Burbank.

Superintendent of Public Buildings.—George A. Chase.

City Physician.—John J. Colton.

Assessors of Taxes.—Fred N. Edgell, Harrison W. Streeter, Alfred Barney, James Marren, Wm. W. Read, Michael H. McCue.

Overseers of the Poor.—James C. Abbott, ex-officio, William H. Parker, George S. Cushing, Albion J. Dudley, Patrick J. Smith, Robert J. Thomas, John P. Quinn. Leonard Jewell, secretary.

Chief of Police.—Jacob G. Favor.

Registrars of Voters.—Charles W. Savage, John J. Harvey, J. Frank Page, Samuel M. Chase, city clerk, ex-officio.

Chief Engineer Fire Department.—Edward S. Hosmer.

Superintendent of Public Schools.—George H. Conley.

Supervisor of Evening Schools.—John A. Smith.

Truant Commissioners.—Bickford Lang, Wm. H. Birmingham, John F. Williams.

Population, Taxes, Finances.

In 1836, when incorporated as a city, Lowell had a population of 17,633. At the last state census, in 1885, she had a population of 64,051. In 1836 she had 3993 polls; in 1885, she had 15,747 polls. In 1836 her valuation was \$5,248,723, and her tax-rate of \$7.40 on a thousand yielded \$44,881.84 in taxes. In 1885 her valuation was \$51,308,335, her tax-rate \$16 on a thousand, and her tax levy yielded \$852,427.36. Her total indebtedness, on the first day of January, 1886, was \$3,268,250, of which \$1,890,000 was on account of the water works, and \$1,378,250 was the

ordinary city debt. But to meet the water debt, there was on the first of January, 1886, \$511,557.96, in sinking funds, and to meet the ordinary city debt sinking funds amounting to \$304,968.34. Therefore the actual net indebtedness of the city at the beginning of this year was—ordinary debt, \$1,073,281.66, water debt \$1,378,-442.04—total, \$2,451,723.70.

Public Schools.

SCHOOL COMMITTEE.

James C. Abbott, ...	Chairman
Daniel J. Donahue, ...	Vice-Chairman
Geo. H. Conley, ...	Secretary

James C. Abbott, Mayor.

Walter M. Sawyer, President Common Council. } *Ex-Officiis*

WARD ONE.

Stephen J. Johnson.
Lawrence Cummings.

WARD TWO.

Herbert P. Jefferson.
Walter H. Leighton.

WARD THREE.

Daniel J. Donahue.
John J. Cluin.

WARD FOUR.

Ransom A. Greene.
George W. Bicknell.

WARD FIVE.

Andrew G. Swapp.
George W. Batchelder.

WARD SIX.

Charles H. Conant.
Walter M. Lancaster.

By common consent the public schools stand first in the order of importance in the municipal organization. The whole number of children of "school age" under the law (5 to 15 years) by the latest enumeration, was 10,970. The amount of money assessed and appropriated for their support in 1885 was \$150,000. These schools are one High, nine Grammar, two mixed, and eighty-three Grammar schools. The following is a complete list of the teachers employed on the 1st day of March, 1886:

Roll of Teachers.

HIGH SCHOOL.

Frank F. Coburn, Master, 62 Moore Street, <i>Science</i> , ...	'80	\$2,000
Frank B. Sherburne, 58 Dover Street, <i>Language</i> , ...	'83	1,800
Mary A. Webster, 17 Varney Street, <i>Language and Mathematics</i> , ...	'60	800
Marietta Melvin, 381 Merrimack Street, <i>Language</i> , ...	'59	700
Elizabeth McDaniels, 162 Stackpole Street, <i>Language and Literature</i> , ...	'68	700
Harriet C. Hovey, 12 Fourth Street, <i>Language</i> , ...	'70	700
Charlotte E. Draper, Mansur Street, <i>Language and Science</i> , ...	'70	700
Alice J. Chase, 158 Stackpole Street, <i>Science and Mathematics</i> , ...	'77	700
M. Jennie Keese, 4 Richardson Street, <i>Language and English</i> , ...	'78	700
Susie L. D. Watson, 31½ Dutton Street, <i>Mathematics and English</i> , ...	'85	600
Mary G. Stevens, 90 Chestnut Street, <i>Mathematics and English</i> , ...	'85	600
Adelaide Baker, 98 Sixth Street, <i>Language</i> , ...	'85	600
Jennie L. Allen, 55 Branch Street, <i>Mathematics and English</i> , ...	'85	600

BARTLETT GRAMMAR SCHOOL.

Samuel Bement, Master, 428 Merrimack Street, ...	'51	\$1,700
Marianne B. Kent, 1st, 428 Merrimack Street, ...	'59	600
Abbie E. French, 2d, 40 Marion Street, ...	'74	600
Belle F. Batchelder, 3d, 7 Arlington Street, ...	'83	600
Belle A. Prescott, 4th, 29 Mt. Washington Street, ...	'78	600
M. Ida Howe, 5th, 54 Methuen Street, ...	'73	600
Frances M. Talbot, 5th, 29 A Street, ...	'82	600
Lola Cheney, 6th, 142 Worthen Street, ...	'82	600
Amy L. Tucke, 6th, 92 Fletcher Street, ...	'79	600

MORRILL SCHOOL.

Ellen F. Coughlan, Prin., 2d and 3d, 15 Austin Street, ...	'53	\$600
Nellie M. Brown, 1st and 2d, 158 Fletcher Street, ...	'65	600
Isabella V. McAnulty, 4th and 5th, 7 Hurd Street, ...	'67	600
Charlotte E. Brown, 6th, 158 Fletcher Street, ...	'70	600

CABOT STREET SCHOOL.

Lottie M. Furnald, Prin., 3d and 4th, 20 Mt. Washington Street, ...	'80	\$600
Mary A. Beard, 1st and 2d, 31 Walker Street, ...	'44	600
Martha A. Neal, 5th and 6th, 11 Dodge Street, ...	'47	600

SCHOOL STREET SCHOOL.

Annie S. Harlow, Prin., 1st, 2d and 3d, 23 Pawtucket Street, ...	'73	\$600
M. Carrie Stiles, 4th, 5th and 6th, 32 Varney Street, ...	'73	600

ROCK STREET SCHOOL.

Sarah E. Scales, Prin., 1st, 2d and 3d, 10 Ralph Street, ...	'66	\$600
Ellen M. White, 4th, 5th and 6th, 89 Grove Street, ...	'63	600

CHEEVER STREET SCHOOL.

Mary J. Meade, ungraded, 1 Clark Street, ...	'80	\$600
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BUTLER GRAMMAR SCHOOL.

Cornelius F. Callahan, Master, 5 Fenwick Street, ...	'84	\$1,700
Frances M. Webster, 1st, 17 Varney Street, ...	'73	600
Laura F. Howe, 2d, 166 Stackpole Street, ...	'56	600
Nellie Keefe, 3d and 4th, 41 Cedar Street, ...	'79	600
Nellie F. Murphy, 4th, 50 Elm Street, ...	'78	600
Carrie A. Miles, 5th, 18 Tyler Street, ...	'82	600
Katie E. Kelley, 5th, 213 Gorham Street, ...	'83	600
Delia T. Brady, 6th, 375 Central Street, ...	'77	600
Mary L. McSorley, 6th, 20 Ash Street, ...	'79	600

LYON STREET SCHOOL.

Katie F. Fay, Prin., 1st and 2d, 94 Stackpole Street, ...	'80	\$600
Alice T. Lee, 3d and 4th, 113 Lawrence Street, ...	'78	600
Mary J. McCarry, 5th, 92 Cross Street, ...	'81	600
Nellie A. Hunt, 6th, 1 Linden Street, ...	'84	500

CARTER STREET SCHOOL.

Belle T. Vinal, Prin., 1st and 2d, 6 Simpson Place, ...	'73	\$600
Georgia A. Harnden, 3d and 4th, 39 Pleasant Street, ...	'85	450
Cornelia M. Davis, 5th and 6th, 40 Rock Street, ...	'71	600

AGAWAM STREET SCHOOL.

Mary McLaughlin, Prin., 1st and 2d, 234 Lawrence Street,	.	.	'79	\$600
Annie M. Lee, 3d and 4th, 113 Lawrence Street,	.	.	'85	450
Bridget T. Maguire, 5th and 6th, 22 Lyon Street,	.	.	'82	600

LONDON STREET SCHOOL.

Lizzie R. Maguire, Prin., 1st, 2d and 3d, 22 Lyon Street,	.	.	'84	\$500
M. Anastasia Lynch, 4th, 5th and 6th, 31 Abbott Street,	.	.	'85	450

COLBURN GRAMMAR SCHOOL.

Geo. W. Howe, Master, 54 Methuen Street,	.	.	'80	\$1,700
Elizabeth W. Frost, 1st, Fairmount Street,	.	.	'57	600
Sarah J. Crosby, 2d, 151 Gorham Street,	.	.	'68	600
Susan M. Andrews, 3d and 4th, 42 Walnut Street,	.	.	'64	600
Mary A. Hammill, 5th, 24 Linden Street,	.	.	'75	600
Elizabeth A. Balch, 5th, 133 E. Merrimack Street,	.	.	'73	600
Kate G. McLaughlin, 6th, 62 Suffolk Street,	.	.	'78	600
Arvilla L. Reader, 6th, 106 Appleton Street,	.	.	'71	600

CENTRAL STREET SCHOOL.

Eliza Crowley, Prin., 1st, 178 Lawrence Street,	.	.	'57	\$600
Charlotte McDaniels, 2d, 162 Stackpole Street,	.	.	'78	600
Katie F. Lawlor, 3d and 4th, 60 Church Street,	.	.	'85	450
Blanche E. Fay, 5th and 6th, 44 Elm Street,	.	.	'85	450

CHAPEL STREET ANNEXES.

Katie E. McOwen, 3d and 4th, 88 South Street,	.	.	'82	\$600
Hattie A. Knowles, 5th and 6th, 51 Hudson Street,	.	.	'82	600
Lucy F. Carleton, 3d and 4th, 42 Chapel Street,	.	.	'55	600
Maggie A. Harrihan, 5th and 6th, 20 Marshall Street,	.	.	'82	600

AMES STREET SCHOOL.

Amanda M. Hadley, Prin., 1st and 2d, 38 Westford Street,	.	.	'70	\$600
Katie F. Murphy, 3d and 4th, 41 Lawrence Street,	.	.	'85	450
Mary E. Drew, 5th, 28 Wamesit Street,	.	.	'68	600
Lizzie M. Hadley, 6th, 117 Moody Street,	.	.	'69	600

CHURCH STREET SCHOOL.

Mary J. Alger, Prin., 1st, 2d and 3d, 54 Chapel Street,	.	.	'68	\$600
Abbie V. Wheeler, 4th, 5th and 6th, 185 Moody Street,	.	.	'79	600

EDSON GRAMMAR SCHOOL.

C. W. Burbank, Master, 92 Bowers Street,	.	.	'72	\$1,700
Mary E. Stone, 1st, 23 Cottage Street,	.	.	'74	600
Maria C. R. Swan, 2d, 75 Appleton Street,	.	.	'62	600
Nettie E. Carleton, 3d, 42 Chapel Street,	.	.	'67	600
Anna A. Sargent, 4th, 152 Appleton Street,	.	.	'64	600
Mary F. Carleton, 4th, 42 Chapel Street,	.	.	'56	600
Fannie A. Scripture, 5th, 269 Central Street,	.	.	'73	600
Rosalie T. Burns, 5th, 7 Prescott Corporation,	.	.	'78	600
Carrie Stone, 5th and 6th, 23 Cottage Street,	.	.	'85	450
Mary A. Balch, 6th, 126 Appleton Street,	.	.	'65	600
Kate F. Hayes, 6th, 13 Floyd Street,	.	.	'79	600

ELLIOTT STREET SCHOOL.

Ellen A. Stillings, Prin., 4th and 5th, 107 Howard Street,	.	.	.	'75	\$600
Marietta McEvoy, 1st and 2d, 5 Agawam Street,	.	.	.	'81	600
Nellie T. O'Grady, 2d and 3d, 59 Newhall Street,	.	.	.	'81	600
Winnifred Haggerty, 6th, 77 Chestnut Street,	.	.	.	'84	500

HOWARD STREET SCHOOL.

Ellen A. Bridge, Prin., 1st and 2d, 54 Chapel Street,	.	.	.	'57	\$600
Marion E. Greene, 3d and 4th, 113 Howard Street	.	.	.	'84	500

GRAND STREET SCHOOL.

Ida J. Flint, 5th and 6th, 142 Liberty Street,	.	.	.	'80	\$600
Jennie M. Bennett, 5th and 6th, 246 Westford Street,	.	.	.	'85	450

CHARLES STREET SCHOOL.

Alice T. Owens, Prin., 1st, 2d and 3d, 45 Walnut Street,	.	.	.	'78	\$600
Abby L. Sargent, 4th, 5th and 6th, 174 Stackpole Street,	.	.	.	'73	600

GREEN GRAMMAR SCHOOL.

A. L. Bacheller, Master, 287 Central Street,	.	.	.	'74	\$1,700
Ruth B. Bailey, 1st, 200 Moody Street,	.	.	.	'71	600
Annie E. Richardson, 2d, 63 Bowers Street,	.	.	.	'71	600
Lizzie A. Nolan, 3d, 74 Mt. Vernon Street,	.	.	.	'76	600
Clara A. Hannaford, 4th, 109 Salem Street,	.	.	.	'69	600
Kate F. Cassidy, 5th, Mt. Grove Street,	.	.	.	'83	600
Ella J. Carleton, 5th, 316 Bridge Street,	.	.	.	'82	600
Lulie A. Huntoon, 6th, 11 Butterfield Street,	.	.	.	'82	600
Lena A. Gookin, 6th, 15 Branch Street,	.	.	.	'80	600

MANN SCHOOL.

Mary L. Hill, Prin., 2d, 126 Worthen Street,	.	.	.	'58	\$600
Minnie C. Smith, 1st, 130 Appleton Street,	.	.	.	'77	600
Ellen A. Corbett, 3d and 4th, 65 Gorham Street.	.	.	.	'78	600
Marietta F. Crowley, 3d and 4th, 23 Marion Street.	.	.	.	'79	600
Ella E. Gardner, 5th and 6th, 4 Mt. Washington Street,	.	.	.	'71	600
Lilla J. Greenhalge, 5th and 6th, 10 Ash Street,	.	.	.	'71	600

KIRK STREET SCHOOL.

Mercena F. Whitehorn, Prin., 1st, 2d and 3d, 389 Beacon Street,	.	.	.	'77	\$600
Laura H. Palmer, 4th, 5th and 6th, 167 Bridge Street,	.	.	.	'82	600

HIGHLAND GRAMMAR SCHOOL.

Chas. W. Morey, Master, 113 Smith Street,	.	.	.	'80	\$1,700
Alice M. Clark, 1st, 46 Chapel Street,	.	.	.	'78	600
Abbie F. Woodward, 2d, 73 Branch Street,	.	.	.	'69	600
Adelaide F. Bennett, 3d, 129 Walker Street,	.	.	.	'82	600
Luella A. Wardwell, 4th, 30 School Street,	.	.	.	'70	600
Fannie M. Clark, 4th, 30 School Street,	.	.	.	'74	600
Estelle L. Whitney, 5th, 101 Chapel Street,	.	.	.	'85	450
Edith L. Monroe, 5th, 81 Appleton Street,	.	.	.	'85	450
Hattie B. Frye, 6th, 26 Walker Street,	.	.	.	'82	600
Mary S. Gerry, 6th, 5 Nichols Street,	.	.	.	'84	500

FRANKLIN SCHOOL.

Sarah C. Fiske, Prin., 1st and 2d, 131 Appleton Street, . . .	'66	\$600
Lizzie S. Lowe, 3d and 4th, 3 Nichols Street, . . .	'57	600
Marion J. Stevenson, 5th, 45 Princeton Street, . . .	'78	600
Katie G. Jones, 6th, 49 Andover Street, . . .	'80	600

PLAIN STREET SCHOOL.

Laura E. Lee, Prin., 1st, 2d and 3d, 141 Grand Street, . . .	'73	\$600
Flora H. Sprague, 4th, 5th and 6th, 14 School Street, . . .	'82	600

DOVER STREET SCHOOL.

Clara B. Home, Prin., 1st, 2d and 3d, 20 South Highland Street, . .	'77	\$600
Clementine H. Bowers, 4th, 5th and 6th, 18 Loring Street, . .	'76	600

POWELL STREET SCHOOL.

Viola A. Hamblett, Prin., 4th, 5th and 6th, 60 School Street, . .	'76	\$600
Carrie J. Bailey, 1st, 2d and 3d, 16 Loring Street, . . .	'84	600

MIDDLESEX VILLAGE SCHOOL.

Elizabeth A. Cotting, ungraded, 64 Baldwin Street, . . .	'76	\$600
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MOODY GRAMMAR SCHOOL.

Wm. S. Greene, Master, 195 Westford Street, . . .	'83	\$1,700
Alice M. Sanborn, 1st, 27 Clay Street, . . .	'81	600
Mary E. Way, 2d, 22 Tyler Street, . . .	'58	600
Carrie F. Smith, 3d, 82 East Merrimack Street, . . .	'83	600
Clara A. Eaton, 4th, 69 Myrtle Street, . . .	'82	600
Laura J. Pindar, 5th, 35 Tyler Street, . . .	'56	600
Frances E. Hardman, 6th, 158 Stackpole Street, . . .	'73	600
Frances E. Garity, 6th, 8 Third Street, . . .	'74	600

POND STREET SCHOOL.

Aurelia L. Howe, Prin., 1st, 2d and 3d, 166 Stackpole Street, . .	'44	\$600
Marietta Hill, 4th, 5th and 6th, 64 Andover Street, . . .	'70	600

HIGH STREET SCHOOL.

Lucretia A. Day, Prin., 1st, 2d and 3d, 214 Central Street, . .	'64	\$600
Clara A. Emerson, 4th, 5th and 6th, 96 Appleton Street, . .	'69	600

FAYETTE STREET SCHOOL.

Nellie Kohawn, ungraded, Tewksbury, . . .	'77	\$600
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PAWTUCKET GRAMMAR SCHOOL.

Cyrus W. Irish, Master, 19 Mt. Washington Street, . . .	'85	\$1,000
Nellie MacDonald, 1st and 2d, 84 Prince Street, . . .	'78	600
Celestia P. Chase, 3d and 4th, 131 School Street, . . .	'67	600
Julia M. Healey, 5th and 6th, 20 Bowers Street, . . .	'70	600

MAMMOTH ROAD SCHOOL.

Ellen M. Holden, Prin., 1st, 2d and 3d, Stevens Street, . . .	'76	\$600
Rose J. Delaney, 4th, 5th and 6th, 93 Market Street, . . .	'85	450

VARNUM AVENUE SCHOOL.

Laura J. Gould, ungraded, . . .	'74	\$600
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VARNUM GRAMMAR SCHOOL.

A. K. Whitecomb, Master, 41 Methuen Street,		'78	\$1,700
Georgiana F. Vinton, 1st, 32 Fourth Street,		'72	600
Harriet Bradley, 2d, 38 Fourth Street,		'54	600
Minnie F. Wing, 3d, 47 Hampshire Street,		'79	600
Sarah A. Bradley, 4th, 145 Bridge Street,		'57	600
Alice R. Keese, 5th, 4 Richardson Street,		'81	600
Maria W. Roberts, 5th, 160 Bridge Street,		'75	600
Ada Martin, 6th, 5 Robbins Street,		'82	600
Rosa A. Dowd, 6th, 117 River Street,		'84	500

WEST SIXTH STREET SCHOOL.

Stella J. Allen, Prin., 1st and 2d, 1 Myrtle Street,		'79	\$600
Ella E. Bradley, 4th and 5th, 10 Sixth Street,		'82	600
Eliza A. Davis, 2d and 3d, 40 Rock Street,		'81	600
Addie L. Richardson, 6th, 26 Merrimack Corporation,		'84	500

TENTH STREET SCHOOL.

Mary F. Beane, Prin., 1st and 2d, 78 Tenth Street,		'79	\$600
Martha A. Franklin, 2d and 3d, 67 Vernon Street,		'66	600
Katherine T. Lennon, 4th and 5th, 4 Willie Avenue,		'85	450
Ella A. Bailey, 6th, 164 Bridge Street,		'69	600

RIVER STREET SCHOOL.

Sara R. Swan, Prin., 1st, 2d and 3d, 51 Fourth Street,		'76	\$600
Lizzie C. Kennedy, 4th, 5th and 6th, 66 Hampshire Street,		'84	500

TEACHER OF PENMANSHIP.

Thomas M. Graves, 69 Lawrence Street,		'83	\$1,000
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TEACHER OF DRAWING.

Henry T. Bailey, 79 Appleton Street,		'85	\$1,000
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MILITARY INSTRUCTOR.

Capt. A. A. Hanscom, 77 Appleton Street,		'80	\$250
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There were also Evening Drawing Schools, held in the Green school, and Worthen Street school buildings, whose teachers were:

J. Nelson Dennis.
 Fred W. Farnham.
 Willard M. Foster.
 Samuel G. Stevens.
 Fred W. Stickney.
 Ellen D. Carney.
 Isabella Coburn.

Mary E. Cushing.
 Ella C. Green.
 Hulda J. Leavitt.
 Helen W. Wright.
 Abby F. Davis.
 Olive E. Underhill.

An Evening High School with these teachers:

James D. Horne, Principal.
 Thomas M. Graves.
 Geo. W. Poore.
 Frank F. Coburn.
 John B. Delany.

Avila Bourbonniere.
 Julian Whiteside.
 Fred. N. Wier.
 Fred. Wood.
 Nellie T. Gilday.

And 62 Elementary Evening Schools held during the winter months, from October to March, in the following school buildings:—Bartlett, Butler, Colburn, Franklin, Green, Moody, Varnum and Worthen Street.

FIRE DEPARTMENT.

This department of public service is one of the most important, and Lowell has reason to be proud of it, since it is one of the most efficient fire departments in the country. With a first-rate water service, giving a maximum head of 150 feet from the lowest reservoir to the level of Merrimack Street, with the ample number of 760 hydrants, with canals intersecting the city in various directions, and with two rivers and several small streams running through the city, the facilities for putting out fires are almost unsurpassed. The large manufactories are amply supplied with special fire apparatus, and have a reservoir of their own from which to draw water for the extinction of fires. The following shows the organization of the fire department on the first day of March:

Chief, Edward S. Hosmer; assistants, James F. Norton, Charles W. Marriott, Oscar J. Gilbert, Geo. F. Salmon; superintendent fire alarm, Geo. B. Whitney.

Franklin Hook and Ladder, No. 1, fifteen men; H. B. Downs, foreman; located on Middle Street.

George Hobson Hook and Ladder No. 2, ten men; H. W. Burton, foreman; located on Middle Street.

Hope Steam Fire Engine, No. 1, eleven men; Charles D. Foley, foreman; located on Gorham Street.

Torrent Steam Fire Engine, No. 2, twelve men; A. C. Stearns, foreman; located on Branch Street.

Wamesit Steam Fire Engine, No. 3, eleven men; Frank Hoyt, foreman; located on Middle Street.

Mazeppa Hose Company, No. 4, nine men; John J. Quinlan, foreman; located on Fayette Street.

Wellman Hose Company, No. 5, nine men; Geo. W. Patten, foreman; located on Fourth Street.

Excelsior Hose Company, No. 6, nine men; Edward Cunningham, foreman; located on Central Street.

Mechanics' Hose Company, No. 7, nine men; D. J. Hurley, foreman; located on Fletcher Street.

Wilson Hose Company, No. 8, ten men; C. E. Luscomb, foreman; located in Pawtucketville.

Lamson Hose Company, No. 9, ten men; Frank C. Craggy, foreman; located on Lincoln Street.

Protective Company, No. 1, seven men; J. L. Flagg, foreman; located on Warren Street.

Chemical Engine, No. 1, four men; S. E. Bartlett, foreman; located on Merrimack, corner Race Street.

One reserve steam fire engine is kept in the house of Hose 7.

This gives a total of two Hook and Ladder Companies, four Steam Fire Engines, six Hose Companies, exclusive of hose carriages in each of the steamer houses, one Protective Company, and one Chemical Engine—all manned by 132 men, and directed by five engineers. There are 26 horses employed in the department.

The fire-alarm system now in use was established in 1871 and reconstructed in 1881, the original cost being about \$15,000, with 4 bell circuits and 30 alarm boxes. There are at present 8 bell circuits and 62 alarm boxes, operated over sixty miles of wire by a battery power of 325 cells. George B. Whitney is the superintendent, having held the position continuously since 1873.

POLICE DEPARTMENT.

The Police Department is under the charge and control of a committee of the Board of Aldermen, who on the first of March were Aldermen Jeremiah Crowley, George E. Stanley, Samuel D. Butterworth.

The head of the force has until recently been styled the "City Marshal," but is now known as the "Chief of Police," the present incumbent being Jacob G. Favor, who has been connected with the force since 1859, in one capacity or another, and is now serving his second year as the chief of the force, and is a most efficient officer. He is assisted by two deputies—Frank Wood and Charles Howard. The remainder of the force consists of 3 sergeants, Chas. Gregg, James E. Webster and George R. Davis; 2 detectives; 2 seizure officers; 2 warrant officers; 2 keepers; 50 regular patrolmen and 9 supernumerary patrolmen.

The Police Court room is located above the Police Station, in the second story of the same building. Samuel P. Hadley is Standing Justice, John J. Pickman and John F. Frye, Special Justices, James F. Savage, Clerk.

Judge Hadley was appointed on March 3, 1885, to fill a vacancy caused by the death of the late Hon. Nathan Crosby, who had served as justice of the court for 39 years, having been appointed in 1846. It is not inappropriate to remark that Judge Crosby's long service, which was continued up to his last sickness, when he had reached the ripe old age of 86, was conspicuous for its ability, fairness, and success. Few men are appointed to so long and honorable a period of public service, and "The Bivouac" is glad to bear this testimony to his worth. Judge Hadley first became connected with the office by his appointment as clerk, in 1857, and he was successively reelected after the office was so filled until his deserved promotion as Justice of the Court. The salary of the position is \$1800.

WATER WORKS.

We cannot do better than to quote from the Lowell Year Book for 1886, published by the Morning Mail Company, as to the Lowell Water Works:

The reservoir, which provides water for domestic purposes and for boilers, is located on Beacon Street, Centralville Heights, and supplied from the Merrimack River, the water being taken from a point above Pawtucket Falls, and forced through a 24-inch pipe to a height of 166 feet, by two engines of 5,000,000 gallon power each, worked alternately, at the pumping station on West Sixth Street. It is then distributed in every part of the city through about 92 miles of service pipe, the main pipe crossing the river at Hunt's Falls.

The high-service reservoir, to meet the localities higher than Beacon Street, is located on Christian Hill, a short distance northeasterly from the Beacon Street reservoir, at an additional elevation of 80 feet, and has a capacity of 1,500,000 gallons, being supplied directly from the larger reservoir by power from a third engine at the pumping station of 500,000 gallon power. About 14,000 water takers are supplied from the large reservoir, and over 100 houses from the high service. Number of meters used, 1,348. The net cost of the Water Works to January 1, 1885, including interest on water loan, was \$2,370,294.37.

A reservoir with a capacity of 2,000,000 gallons, on Lynde's Hill, Belvidere (belonging to the Locks and Canals Company), is kept full by means of steam pumps in the Machine Shop yard, and is used for extinguishing fires on the corporations.

It should be added that water was introduced November 29, 1872, and the high service was established December 30, 1881. The management of the Water Works is under direction of a Water Board elected by the City Council, in part from their own members, and in part from the citizens at large. The board now consists of Walter Coburn, chairman; C. A. R. Dimon, Alderman James Francis, Councilmen Arnold S. Welch and Frank W. Howe.

The superintendent is Horace G. Holden, and the clerk is Horace H. Knapp.

STREETS AND SEWERS.

There is no regularly organized department of streets and sewers, though the question of creating a commission for the management of so important portions

of the public work has often been discussed. They are now managed by joint committees of the City Council, under charge of a Superintendent of Streets, elected by the Council, which position is now filled, for the second year, by Charles H. Hanson. The present Committee on Streets is composed of Aldermen George E. Stanley and Stephen B. Puffer, Councilmen Thomas J. Enright, F. D. Munn, Jr., Wilson W. Carey, Elwyn W. Lovejoy and Thomas J. Sparks, and the Committee on Sewers is composed of Aldermen John F. Phillips, Samuel D. Butterworth and Stephen B. Puffer.

There are about 94 miles of streets within the city limits, about 8 2-10 miles of which are paved, mainly with small granite blocks. The cost of the street department for 1885 was \$88,000.56. The sewers necessitated by the introduction of water are extensive and expensive. The drainage of the city is into the Merrimack and Concord Rivers. The cost of the sewer department for 1885 was \$42,781.20.

THE CITY LIBRARY.

The City Library, located in Masonic Temple, was founded in 1844. It has about 30,000 volumes and a large collection of valuable books for reference. The library was made free to the public in 1883, and at the same time a free reading room, containing the principal magazines and newspapers, was opened in Edson Block, adjoining Masonic Temple, the reading room and library being accessible from the same floor. The librarian is Mr. Charles H. Burbank, and his assistants are Walter H. Gilman and Stephen T. Wyman. The cost of maintaining the library last year was \$13,203.45.

The librarian is elected by the City Council, but the general management is under the charge of a Board of Directors, who are Mayor James C. Abbott, ex-officio, President of Common Council Walter M. Sawyer, ex-officio; and

Ward 1. Lawrence Cummings.

“ 2. Edward Ellingwood.

“ 3. Harry Dunlap.

Ward 4. Wm. J. Coughlin.

“ 5. Arthur F. Salmon.

“ 6. Wm. G. Ward.

CITY CHARITIES.

The poor department is under control of a Board of Overseers, whose names are given among our city officials. The chief institution under their charge is known as the City Farm, located on the Chelmsford road, near the Chelmsford line. The farm consists of 130 acres, about 6 acres being sprout land, and from 25 to 30 acres are worked each year. The buildings are four in number, devoted to the different departments of the Insane, Paupers, Workhouse and Reform School. The buildings are heated by steam, 3 boilers being used for this purpose. There are at present 325 inmates. The officers of the institution are as follows: Col. Albert Pinder, Superintendent; Mrs. A. Pinder, Matron; William A. Lang, Chaplain and Teacher; and Michael Sexton, Assistant Teacher. The foreman of the farm is Henry S. Phillips.

A Free Dispensary, established and managed by the city, was instituted in 1879. The City Council makes an annual appropriation of \$1000 for its support, one-half of which amount is expended for medicine. Twelve physicians, annually recommended by the Middlesex North Medical Society and confirmed by the Overseers of the Poor, constitute a medical board, one of whom spends an hour each day at the rooms to attend to patients. It is located in the Police Station building.

NON-MUNICIPAL INSTITUTIONS.

The above comprises about all that pertains to municipal management, and which is paid for from the public taxes. There are numerous associations and institutions not supported by taxation, the facts concerning which we take mainly from the Lowell Year Book above referred to.

Churches and Missions.

The first church edifice built in Lowell was St. Anne's, completed in 1825 by the Merrimack Company, the late venerable Dr. Theodore Edson becoming its rector at that time and continuing in the position until his death, June 25, 1883—a period of 58 years. Other church buildings followed as the population increased, and the number now devoted to public worship, including those in process of construction, is thirty-five. They are presented in the following table, the denominations being given alphabetically, and the churches in the order of their organization. The Highland Congregational Church and Society erected during the year a church edifice at the corner of Westford and South Canton Streets; and the First Congregational Society have completed their new church on Merrimack Street, upon the site of the old one built in 1827.

Churches.

Denomination.	Organized.	Name.	Location.	Present Pastor.
Baptist	1826	First.....	Church Street.....	John Gordon, D. D.
	1831	Worthen Street.....	Worthen Street.....	W. S. Ayres.
	1869	Tabernacle.....	Branch Street.....	O. E. Mallory.
Congregational	1874	Fifth Street.....	West Fifth Street.....	—
	1797	Pawtucket.....	Pawtucketville.....	Charles H. Willcox.
	1826	First.....	Merrimack Street.....	Smith Baker.
	1830	Eliot.....	Summer Street.....	J. M. Greene, D. D.
	1839	John Street.....	John Street.....	H. T. Rose.
	1845	Kirk Street.....	Kirk Street.....	C. A. Dickinson.
	1846	High Street.....	E. Merrimack Street ..	Owen Street, D. D.
Episcopal.....	1877	French Protestant.....	Bowers and Fletcher...	Calvin E. Amaron.
	1884	Highland.....	Westford & So. Canton..	S. W. Adriance.
	1824	St. Anne's.....	Merrimack Street.....	A. St. John Chambré.
	1860	St. John's.....	Gorham Street.....	L. C. Manchester.
Free Baptist.....	1876	House of Prayer.....	Walker Street.....	J. J. Cressey.
	1833	Paige Street.....	Paige Street.....	G. N. Howard.
	1874	Mount Vernon.....	Butterfield & Mt. Vernon	E. G. Wesley.
Lutheran.....	1883	Faith Chapel.....	Chelmsford and Plain...	L. W. Raymond.
	1882	Swedish Lutheran.....	Meadowcroft Street.....	C. A. Blomgren.
Methodist.....	1826	St. Paul's.....	Hurd Street.....	C. F. Rice.
	1841	Worthen Street.....	Worthen Street.....	E. R. Thorndike.
	1854	Central.....	John Street.....	I. H. Packard.
	1875	Highland.....	Loring Street.....	W. H. Meredith.
	1846	Free Chapel.....	Middlesex Street.....	—
Ministry-at-Large...	1869	First.....	Appleton Street.....	Robert Court.
Presbyterian.....	1879	Zion.....	Gorham Street.....	J. A. McGreaham.
Primitive Methodist	1831	St. Patrick's.....	Fenwick Street.....	Michael O'Brien.
Roman Catholic....	1841	St. Peter's.....	Gorham Street.....	Michael Ronan.
	1867	St. Joseph's.....	Lee Street.....	A. M. Garin, O. M. I.
	1868	Immaculate Conception,	Fayette Street.....	J. McGrath, O. M. I.
	1884	Sacred Heart.....	Moore Street.....	T. Lavoie, O. M. I.
	1884	St. Michael's.....	Sixth Street.....	William O'Brien.
Unitarian.....	1829	First.....	Merrimack Street.....	J. L. Seward.
Universalist.....	1827	First.....	Hurd Street.....	G. W. Bicknell.
	1838	Second.....	Shattuck Street.....	R. A. Greene.

In addition to the societies worshipping in the churches named are the following organizations also holding regular services:

Belvidere Mission School, Fayette Street.

Berean Mission, Lawrence Street.

Bethesda Sunday School, corner of Gorham and Manchester Streets.

Central Mission, First Street.

Christian Brethren, Gospel Hall, 285 Lincoln Street.

Independent Union Mission, Davis' Corner, Central Street.

Lowell Silent Society, room 28, Barristers' Hall. Preaching service on alternate Sundays.

St. Anne's Mission, Atherton.

Second Advent Society, Mechanics' Hall; no settled pastor.

Swedish Free Evangelical Society, in Bethesda Sunday School room.

Swedish M. E. Church; services in the Swedish language at St. Paul's Church, Hurd Street, Friday evenings.

Libraries and Reading Rooms.

The Library of the Middlesex Mechanics' Association was established soon after the introduction of manufacturing, and has done an important educational work. It has now about 16,000 volumes upon its shelves, catalogued by the dictionary system. Miss Mary E. Sargent is the librarian. Connected with it is a reading room, where may be found local and metropolitan newspapers and the principal quarterly and monthly magazines.

The Young Men's Christian Association has a library of over a thousand volumes, and a reading room connected therewith containing one hundred papers and magazines.

The Young Men's Catholic Library Association has a library of eight hundred volumes.

The People's Club has nearly 1200 volumes. A reading room with 400 papers and periodicals is also a feature of the Club. Upwards of thirty thousand persons visited the rooms during the past year.

Benevolent and Charitable Institutions.

The Associated Charities of Lowell is an organization to aid the deserving poor and unfortunate, and protect the charitably inclined from imposition. Its officers are E. P. Woods, president; Rev. L. C. Manchester, vice-president; William P. Atwood, secretary; John F. Kimball, treasurer; Miss Annie M. Paige, registrar. There are also executive and visiting committees. The office is in Wyman's Exchange, room 11.

The Ministry-at-Large has an office at the Free Chapel, Middlesex Street, and dispenses annually among the worthy poor the income of the Nesmith legacy of \$25,000 (amounting to \$1500), and the income of the Tyler legacy of \$10,000 (amounting to \$600), besides individual and other contributions. Since the death of Rev. Mr. Duganne, the Minister-at-Large, the office has been in charge of Mrs. Duganne.

The Old Ladies' Home, located on Fletcher Street, near Pawtucket Street, has forty dormitories. It is supported by an annual fair and by private contributions. Mrs. George Hedrick is president; Mrs. John Nesmith, secretary; Frank P. Hagggett, treasurer, and Miss M. J. Weston, matron.

The Home for Young Women and Children, located at the corner of John and Lee Streets, furnishes a home for young women while seeking employment, and cares for the young children of mothers who have to work in the mills or shops for support. It is dependent on annual fairs and private contributions for means of doing good. Mrs. S. L. Ward is president, and Mrs. M. A. Whittier, matron.

The Lowell Dispensary is an institution for furnishing medicine and medical advice to the poor free of charge. Sewall G. Mack is president; Austin K. Chadwick secretary and treasurer, and Dr. Charles P. Spalding physician, with Drs. Joel Spalding and C. A. Savory as consulting physicians.

St. Peter's Orphan Asylum (Roman Catholic), located on Appleton Street, is managed by the Sisters of Charity. It cares for 65 orphan girls.

The People's Club, for the improvement of operatives and working people generally, was incorporated in 1882. Amusement and reading rooms are provided. A series of instructive lectures and pleasing entertainments is also given once a week during the winter months. The rooms for males are in Nesmith's Block, entrance on John Street, and the rooms for females are in Wyman's Exchange. The club is sustained by contributions, the several corporations being liberal in their support. Frederick Ayer is president, James Watson secretary, and A. G. Cumnock treasurer.

The Young Men's Christian Association has rooms in Barristers' Hall. A. B. Woodworth is president, with a board of twenty-three directors, from the different evangelical churches. The Association is supported by subscriptions and assessments, its membership at the beginning of 1885 being over 1000.

Hospitals.

The Lowell Hospital was founded in 1840 by the several manufacturing companies, for the benefit of the sick and disabled operatives in their employ. The building is located on the corner of Merrimack and Pawtucket Streets, on high ground, and commands a view of the Merrimack River and the Dracut and Pelham hills. The portion of the building formerly occupied by the physician in charge (once the residence of Kirk Boott) has been fitted up for the use of patients. This furnishes accommodations for a larger number of patients than before, and the patients are not, as formerly, confined exclusively to operatives in the mills. The management devolves upon a Board of Trustees composed of the agents of the several corporations, to which the Mayor and S. G. Mack have been added. The medical staff consists of six resident physicians. The hospital building is in charge of an experienced matron, but the general oversight of affairs is under the supervision of a visiting committee from the Board of Trustees. The charges for board medical attendance, medicines and nursing are limited, in the case of operatives from the corporations, to the price they are required to pay for board in the boarding-houses of the companies. Other patients, in wards or private rooms, are required to pay such rates as may be fixed by the visiting committee at the time of admission.

St. John's Hospital was incorporated in March, 1867. About two years later the building was completed and opened to the public. It is situated on the site of the "old yellow house," High Street Square, Belvidere, near the confluence of the Merrimack and Concord Rivers. The hospital is in charge of the Sisters of Charity, nine of whom are attached to it. A staff of eight physicians attend gratuitously by turns on the patients. No one is refused admission to the hospital

on account of poverty; but, when able, patients are expected to pay from four to ten dollars per week, according to their room and accommodations. The current expenses of the institution average about \$8000 annually, and the receipts from patients about \$5000, the deficit being made up by the proceeds of an annual fair and by contributions.

The City Government maintains a hospital at the City Farm, where the sick and insane poor are cared for. It is under the medical supervision of the City Physician.

OTHER ASSOCIATIONS AND SOCIETIES.

The Old Residents' Historical Association was organized in January, 1868. Dr. John O. Green was president from its organization until his death. Alfred Gilman is secretary.

The Middlesex Mechanics' Association was incorporated in 1825. Hon. Charles H. Allen is president, J. Tyler Stevens treasurer, and Hamilton Burrage secretary. This Association has a building of its own on Dutton Street, containing a fine hall, a library and reading room (before mentioned), and a cabinet of natural history. For many years in the past it has furnished annually a course of first-class lectures and entertainments.

The Lowell Art Association, in Morrill's studio, Central Block, owns several fine pictures by David Neal, W. P. Phelps, and other artists of note, a large collection of photographs and valuable books of reference. Thomas B. Lawson, president, Frank N. Chase, clerk and treasurer.

The Lowell Choral Society, organized in 1869, has presented in public many of the most important choral compositions, and is a powerful influence in maintaining a high musical standard in the community. During fall and winter weekly rehearsals are held in Mechanics' Hall, under the direction of Carl Zerrahn. Walter Coburn, president; Joseph Smith, clerk; Fred. A. Chase, treasurer.

The Middlesex North Agricultural Society owns grounds and makes its headquarters at Lowell, though extending its membership to the towns of Billerica, Burlington, Chelmsford, Dracut, Dunstable, North Reading, Tewksbury, Tyngsborough, Wakefield, Westford and Wilmington. Atkinson C. Varnum of Lowell is president; E. T. Rowell of Lowell, secretary; and J. A. Bartlett of Lowell, treasurer.

The Middlesex Poultry Association is organized for the improvement and exhibition of domestic fowls. It holds an annual exhibition, generally in Huntington Hall.

Lowell Cemetery Association. Cemetery located on Lawrence Street.

Lowell Retail Grocers' Association; organized 1881. President, Horace Ela.

Lowell Association Veterans of Mexican War. President, John P. Searle.

Society for the Prevention of Cruelty to Animals. President, Hon. F. T. Greenhalge.

Lowell Indian Association. Established in 1885 for the discussion of the Indian question. President, Mary F. Eastman; Secretary, M. Ella Russell.

French Societies.

L'Union St. Jean Baptiste Society.

Le Cercle Canadien.

L'Union St. Joseph De Lowell.

Societe De L'Ange Gardien of St.

Association Catholique De Jeunes Gens Joseph's Church. (For boys.)

of St. Joseph's Church.

Social Clubs.

Lowell Press Association.	O. 18 U. Club, Barristers' Hall.
Home Club, Wyman's Exchange.	X. Q. Z. Club, Wyman's Exchange.
Lowell Belles, 125 Central Street.	X. 10 U. S Club, Wyman's Exchange.
Yorick Club, Mansur Building.	

Literary Societies.

The following literary organizations exist in Lowell:—

History Club, Hon. F. T. Greenhalge, President.	Young Men's Catholic Lyceum. Regular meetings Wednesday evenings at 18 Middle Street.
The Old Franklin Literary Association.	Franklin Literary Association.
Lawrence Debating Union.	Young Men's Catholic Library Association. Regular meetings Wednesday evenings at Hall, 55 Central Street.
The "Literati" in Middlesex.	
<i>Lowell Catholic Union.</i> —President, John J. Donovan; Recording Secretary, Joseph F. Mulcahy; Financial Secretary, Patrick Conlan; Treasurer, Miss Ellen J. O'Donnell.	

Athletic and Sporting Clubs.

Lowell Bicycle Club.	Vesper Boat Club.
Lowell Polo Club.	Lowell Rod and Gun Club.

SECRET ORGANIZATIONS.

*GRAND ARMY OF THE REPUBLIC.**B. F. BUTLER ENCAMPMENT, POST 42.*

Meets Thursday evenings in G. A. R. Hall, Mansur Building, 51 Central Street. Number of members, 355. Commander, John Welch; Senior Vice-Commander, Walter H. Leighton; Junior Vice-Commander, John Donnelly; Adjutant, Geo. E. Worthen; Quartermaster, Lucius W. Hilton; Officer of the Day, John J. Dolan; Officer of the Guard, Timothy Dempsey; Surgeon, F. C. Plunkett, M. D.; Chaplain, O. M. Cousens.

JAMES A. GARFIELD ENCAMPMENT, POST 120.

Meets Wednesday evenings in G. A. R. Hall, Mechanics' Bank Building, 128 Merrimack Street. Number of members, 250. Commander, William A. Fifield; Senior Vice-Commander, Henry M. Jacobs; Junior Vice-Commander, W. A. Stinson; Adjutant, Joseph E. Adams; Quartermaster, W. W. Tuttle; Officer of the Day, L. A. French; Officer of the Guard, C. H. Flanders; Surgeon, E. B. Holt, M. D.; Chaplain, A. G. Hildreth.

Women's Relief Corps.—Organized Nov. 21, 1883.

Masonic.

A. A. S. Rite.—Meetings: First Thursday after full moon.
Lowell Lodge of Perfection.—C. C. Hutchinson, T. P., Grand Master.
Lowell Council Princes of Jerusalem.—H. N. Hall, M. E. S. P., Grand Master.
Mt. Calvary Chapter of Rose Croix.—Wm. F. Salmon, M. W. and P. Master.
Lowell Masonic Association.—Wm. F. Salmon, President; Hiram N. Hall, Secretary.

Masonic Relief Association.—Wm. F. Salmon, President; Theodore Adams, Secretary.

Pilgrim Commandery.—Charles F. Young, E. C.

Ahasuerus Council.—Charles H. Richardson, T. I. M.

Mt. Horeb Royal Arch Chapter.—Charles F. Young, H. P.

Pentucket Lodge.—Henry Carll, W. M.

Ancient York Lodge.—Richard H. Chamberlain, W. M.

Kilwinning Lodge.—Hermon J. Smith, W. M.

William North Lodge.—Charles H. Hobson, W. M.

Independent Order of Odd Fellows.

ENCAMPMENTS.

Monomake, No. 4, meets second and fourth Thursday evenings of each month, C. P., Henry Hoole.

Wannalancit, No. 39, meets first and third Thursday evenings, C. P., Allen Buckminster.

Lowell, No. 17, meets first and third Friday evenings, C. P., C. J. Willstead.

Pawtucket U. D. Encampment, No. 9, meets second Friday evening of each month.

LODGES.

Lincoln, No. 188, meets Tuesday evening, N. G., James B. Martin.

Merrimack, No. 7, meets Monday evening, N. G., Jacob Norris.

Mechanics, No. 11, meets Wednesday evening, N. G., H. W. Sheffield.

Oberlin, No. 28, meets Tuesday evening, N. G., G. D. Brown.

Veritas, No. 49, meets Thursday evening, N. G., W. A. Lehan.

Lowell, No. 95, meets Friday evening, N. G., H. L. Hurd.

Evening Star, No. 30, R. D., meets second and fourth Saturdays, N. G., Mrs. A. Hastings.

All the above meet in Odd Fellows Hall, 136 Merrimack Street.

Highland, No. 6, meets in Highland Hall, 61 Branch Street, Wednesday evening.

Highland Union, R. D., No. 31, meets in Highland Hall, first and third Monday evenings.

Odd Fellows Mutual Benefit Association.—Meets in Odd Fellows Hall, the third Friday in January, April, July and October.

Odd Fellows Ladies' Relief Society.—Meets at homes of members third Wednesday in each month.

Manchester Unity, Loyal Excelsior Lodge, No. 6303.—Meets first and third Thursdays at Pilgrim Hall.

Integrity Lodge.—Meets every Thursday evening in Barristers Hall.

Knights of Pythias.

Endowment Rank.—Meets in Pythian Hall, 84 Merrimack Street, first Wednesday in each month.

Lowell Lodge, No. 24.—Meets Thursday evening in Pythian Hall.

Wamesit Lodge.—Meets Monday evening in Pythian Hall.

Samuel H. Hines Lodge, No. 56.—Meets Tuesday evening in Pythian Hall.

Middlesex Lodge.—Meets Friday evening in Highland Hall.

Knights of Honor.

Excelsior Lodge, No. 139.—Meets first and third Wednesday evenings in Union Hall, 25 Middle Street. Dictator, William Little.

Fredonia Lodge.—

Ancient Order of Foresters.

Court Merrimack, No. 6462.—Meets in Union Hall, second and fourth Tuesday evenings. Chief Ranger, Dennis J. Leary.

Court Middlesex, No. 7067.—Meets in Union Hall, second and fourth Monday evenings. Chief Ranger, Patrick A. Rogers.

Ancient Order of Hibernians.

Division No. 1.—Meets second Wednesday and last Monday evenings in each month in Lynch's Hall.

Division No. 2.—Meets first Wednesday and third Monday evenings in Tyler's Hall.

Division No. 11.—Meets second Tuesday and last Friday evenings in Tyler's Hall.

Division No. 28.—Meets second and fourth Thursday evenings in Hibernian Hall.

OTHER SECRET SOCIETIES.

Loyal Lodge of Orangemen.—Knox's True Blues, No. 79.—Meets in Good Templars' Hall first Tuesday evening of each month.

Garfield Purple Star Lodge, No. 175.—Meets in Good Templars' Hall second and fourth Thursdays.

Royal Black Knights Camp of Israel.—Mount Horeb Royal Black Preceptory, No. 17.—Meets first Friday of each month in Good Templars' Hall.

Order of Sons of St. George.—Waverly Lodge, No. 104.—Meets first and third Monday evenings in Union Hall.

American Legion of Honor.—Lowell Council, No. 427.—Meets at 48 Central Street second and fourth Monday evenings.

United Order of the Golden Cross.—Washington Commandery.—Meets in Union Hall second and fourth Thursdays. Noble Commander, Mrs. Ida M. Lyman.

Ancient Order of United Workmen.—Lowell Lodge, No. 22.—Meets over the Boston and Maine Depot second and fourth Wednesday evenings. Master Workman, W. H. Kimball.

Order of United Friends.—Mystic Council, No. 10.—Meets in Union Hall first and third Tuesday evenings. Chief Councillor, E. R. Fife.

United Order of Pilgrim Fathers.—Garfield Colony, No. 34.—Meets in Pilgrim Hall every Wednesday evening.

Knights of St. Patrick.—Rooms 83 and 85 Market Street. Commander, John H. Morrison.

Lowell Irish Benevolent Society.—Meets in Runels's Block, Gorham Street. Organized for benevolent purposes within its own membership.

Independent Order of Free Sons of Israel.—Samuel Lodge, No. 51. Samson Abels, President.

Royal Arcanum.—Lowell Council, No. 8.—Meets in Union Hall, 25 Middle Street, first and third Thursday evenings. Regent, James H. Brennan.

Military Companies.

Lowell Mechanic Phalanx.—Co. C. 6th Regiment, M. V. M. Capt., Geo. O. E. French; 1st Lieut., Charles Connors; 2d Lieut., Willard M. Foster. Armory, 70 Middle Street.

Putnam Guards.—Co. G. 6th Regiment, M. V. M. Capt., Chas. H. Richardson; 1st Lieut., Asa W. Mead; 2d Lieut., Frank E. Cleveland. Armory, 70 Middle Street.

Temperance Organizations.

Woman's Christian Temperance Union.—Meets in Y. M. C. A. Hall, second Thursday of each month.

Eirene Lodge, No. 74, Independent Order of Good Templars.—Meets every Wednesday, in Free Chapel, Middlesex Street.

Lowell Reform Club.—Meets every Tuesday evening in Welles Hall. President, Frank H. Flagg.

St. Patrick's Temperance Society.—Meets in Parochial School, Suffolk Street, last Sunday in each month.

Burke Temperance Institute.—Meets at 129 Central Street. President, Eugene F. Sullivan.

The Elliott Temperance Society.—Meets in Urban Block every Tuesday evening. President, Edward J. Carroll.

Immaculate Conception Total Abstinence Society.—Meets in Parochial School, High Street square.

St. James Total Abstinence Alliance.—Meets second Tuesday and last Friday in each month.

The Mathew Temperance Institute.—Meets in Cook & Taylor's Block, Central Street, every Monday evening. President, Cornelius F. Callahan.

PROFESSIONAL LOWELL.

We have given a full list of the clergy under the head of churches, and of the teachers in connection with the public schools. We now give a full list of lawyers, most of whom were members of the Lowell Bar on the first day of March, 1886.

THE LAWYERS.

The Lowell Bar Association was organized in 1875 and meets the first Wednesday evening of January, April, July and October, in the Police Court building. Hon. Arthur P. Bonney is President, and John J. Pickman, Secretary. The following are the members:

- Abbott Julian, 87 Central, 1840.
 Abbott James C., 45 Central, 1852.
 Anderson W. H., 1 Barristers' Hall, 1862.
 Atherton Abel T., 170 Fairmount, 1872.
 Barry William P., 51 Central, 1885.
 Batchelder Geo. W., Central block, room 6, 1852, Ills., 1854.
 Bement Gerard, 428 Merrimack, 1883.
 Blaisdell C. R., 3 Canal block, 1859.
 Bonney Arthur P., Merchants' National Bank, 1848.
 Brown Harry A., 22 P. O. building, 1881.
 Brown Hiram H., 11 Barristers' Hall, 1878, Maine, 1865.
 Burnham C. E., 1 Barristers' Hall, 1882.
 Butler Benjamin F., 1841.
 Byam George A., 55 Central, 1865.
 Caverly Robert B., 7 Barristers Hall, 1837.
 Carmichael James H., 51 Central, 1880.
 Conant Charles H., 51 Central, 1873.
 Courtney William F., 51 Central, 1878.
 Cowley Charles, 12 Middle, 1856.
 Crowley Jeremiah, 81 Central, 1868.
 Davis John, 33 Central, 1863.
 Enright Thomas J., 45 Central, 1884.
 Fisher Frederick A., 45 Central, 1886.
 Frye, John F., 81 Central, 1865.
 Gilday Charles A., 51 Central, 1884.
 Greenhalge F. T. 51 Central, 1865.
 Hadley Charles S., 296 Gorham, 1878.
 Hadley S. P., Police Court, 1854.
 Hamblett Martin L., P. O. building, 1872, Mich., 1870.
 Harvey John J., 5 Barristers' Hall, 1884.
 Haskell J. F., 6 P. O. building, 1875.
 Hogan J. J., 51 Central, 1882.
 Hoar Patrick J., P. O. building, 1886, Kansas, 1885.
 Howe C. F., 45 Central, 1859.
 Hunt, John L., 16 Central, 1880.
 Kileski Louis H., 51 Central, 1877.
 Kimball J. C., 48 Central, 1859, N. H., 1858.
 Ladd Jonathan, 56 Central, 1846.
 Lamson Alfred G., 20 P. O. building, 1873.
 Lawton Frederick, 45 Central, 1880.
 Lawton G. F., 45 Central, 1876.
 Lilley Charles S., 21 P. O. building, 1876.
 Marble Fred. P., 3 Barristers' Hall, 1883.
 Marren John, 8 Canal block, 1880.
 Marshall Joshua N., 39 Hildreth bldg., 1855.
 Masterson John T., 44 Hildreth bldg., 1883.
 McVey Edward D., 44 Hildreth bldg., 1881.
 Moore Albert M., 35 and 36 Central block, 1867, New York, 1868.
 Morrison John H., 38 P. O. building, 1878.
 Murphy James S., Jr., 39 Hildreth bldg., 1885.
 Osgood Wm. N., 53 Merrimack, 1880.
 Pickman J. J., 5 and 6 Barristers' Hall, Central, cor. Merrimack, 1872.
 Poore George W., P. O. building, 1885.
 Porter Irving S., 81 Central, 1870.
 Pratt N. D. 45 and 46 P. O. block, 1875.
 Qua Francis W., 3 Barristers' Hall, 1878.
 Quinn Edward B., 45 P. O. block, 1881.
 Reed John W. 4 Barristers' Hall, 1865.
 Richardson Daniel S., 55 Central, 1839.
 Richardson George F., 55 Central, 1853.
 Richardson George R., 55 Central, 1883.
 Sawyer A. P., 53 Merrimack, cor. John, 1881.
 Savage Charles W., 45 Central, 1878, Mich., 1877.
 Savage James F., Police Court, 1876, Mich., 1877.
 Shepard Luther E., 45 Central, 1862.
 Stevens George H., 12 Barristers' Hall, 1880.
 Trull L. T., 55, Central, 1882.
 Varnum A. C., 55 Central, 1859.
 Webster Prentiss, 45 Myrtle, 1880.
 White Herbert R., 33 Central, 1884.
 Williams Benj. J., Jr., 49 Nesmith, 1863, Miss., 1860.
 Williams Charles M., Old Lowell National Bank, 1861, Miss., 1860.
 Wyman S. B., 12 and 13 Barristers' Hall, 1868, Iowa, 1859.

THE DOCTORS.

The Middlesex North District Medical Society embraces the city of Lowell, and the towns of Acton, Billerica, Chelmsford, Carlisle, Dracut, Dunstable, Groton, Littleton, Pepperell, Tewksbury, Tyngsborough and Westford. President, Wm. Bass of Lowell; Secretary, Geo. C. Osgood of Lowell. Meet quarterly in Lowell, last Wednesday in January, April, July and October.

The following are the members in practice in Lowell March 1, 1886, with the location of office, and as far as we could learn the same, the date when they began practice in Lowell:

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| Allen, Nathan, 12 Hurd street. | Nickerson, Franklin, 40 Kirk street. |
| Bass, William, 137 Central street, 1856. | Osgood, Geo. C., cor. Merrimack and Suffolk streets, As an apothecary, 1853. As M. D., 1863. |
| Bell, Robert E., 115 Central street, 1883. | Parker, Moses G., 9 First street. |
| Benner, B. R., 161 Central street. | Patterson, David N., Room 8 Welles Block, Merrimack street, 1876. |
| Benoit, Benjamin, Jr., 5 Middlesex street. | Phelan, A. Q., 2 and 4 Summer street, 1876. |
| Bradt, Gerritt J., 5 Middlesex street, 1880. | Pillsbury, George H., 26 Kirk street. |
| Brissett, H. R., 195 Middlesex street, 1881. | Pinkham, George E., 161 Central street, 1863. |
| Carolin, William T., Savings Bank Building, Merrimack cor. John street. | Plunkett, Francis C., 159 Worthen street. |
| Chadbourne, F. W., Wyman's Exchange, Merrimack cor. Central street. | Porter, Omer P., 52½ Merrimack street. |
| Colton, John J., 18 Shattuck street, 1876. | Prescott, Royal B., Room 1 Fiske's Block, 115 Central street. |
| Eaton, W. G., Jr., 195 Middlesex street, 1879. | Qua, Lester R., 535 Middlesex. |
| Fisk, Cyrus M., Room 2 Welles Block. | Ricker, Charles H., Wyman's Exchange. |
| Fox, Lorenzo S., Savings Bank Building, Merrimack cor. John street. | Rix, Frank R., Post Office Building. |
| Gilman, John H., Room 1 Welles Block, Merrimack street, 1865. | Savory, Charles A., 46 Kirk street, 1848. |
| Hoar, William M., Mansur Building, 51 Central street, 1873. | Shaw, Thomas P., 357 Merrimack street, 1877. |
| Huntress, Leonard, 115 Central street. | Simpson, Charles E., Savings Bank Building, Merrimack cor. John street. |
| Irish, John C., 115 Central street, 1874. | Smith, Hermon J., Central Block, 33 Central street. |
| Jackson, William B., 260 Gorham street. | Smith, Sumner P., 53 Merrimack street. |
| Jefferson, Herbert P., 15 Kirk street, 1880. | Spalding, Charles P., Wyman's Exchange. |
| Johnson, Herbert S., 16 John street. | Spalding, Joel, 18 Shattuck street. |
| Johnson, William A., 53 Merrimack street. | Sullivan, James F., 20 Suffolk street. |
| Kimball, Gilman, 411 Merrimack street. | Taylor, Charles W., 18 John street, 1884. |
| Lathrop, William H., 15 First street, 1883. | Trueworthy, E. W., 224 Middlesex street. |
| LaVigne, A. W., Room 5 Welles Block, Merrimack street, 1869. | Viles, C. A., Post Office Building. |
| Leighton, W. H., 137 Central street, 1866. | Vincelette, Arthur Ed. Z., 8 Lee street, 1882. Graduate Laval University, Quebec, 1878. |
| In 1864 was Brigade Surgeon 3d Brigade, 1st Div., 18th Corps. | Wentworth, Jacob B., 5 Westford. |
| McCarty, James J., 32 Central street. | Willard, Oliver A., Wyman's Exchange. |
| McGannon, E. A., Room 7 Welles Block. | |
| MOwen, Timothy E., 115 Gorham street. | |
| Mignault, Rodrigue, 310 Merrimack street. | |

The Homœopathists.

The following are the members of the Lowell Hahnemann Club, C. H. Leland, President; S. G. Bailey, Secretary; and all of them except Dr. A. Thompson, are also members of the Massachusetts Homœopathic Society. We give the location of office of each, and the year in each case represents the date when the physician began practice in Lowell. In cases where no date is given we have been unable to look it up:

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| Bailey, Stephen G., 6 John street, 1881. | Hunter, Horatio M., 170 Merrimack street. |
| Holt, Edward B., Hildreth Building. | Leland, Clarence H., 170 Merrimack street. |

Packer, Edmund H., 128 Merrimack street.
 Page, Mrs. Caroline E., Pawtucketville, street. 1867. Prop. Moxie Nerve Food.
 opposite Pawtucket school. March, 1880. Warner, Frederick A., 42 Kirk street, 1872.
 Woods, Charles L., 16 Central street.

The other homœopathic physicians of Lowell are :

Georgia L. Davy, 150 Cross street.

Warren S. Foss, 275 Merrimack street, 1882.

James W. Huntoon, Post Office Building, 1855; absent 1863 to 1883.

Other Practitioners.

Other practioners of medicine in Lowell on the first of March were as follows :

Bartlett Solon, 62½ Merrimack street.	Lang Roger J., 212 Merrimack street, 1876.
Brown J. Ingraham, 48 Central Street, 1884.	Larochelle Pierre, 32 Cabot street.
Carpenter George C., 48 Central street.	Masta, Joseph A., 38 Varney street.
Carpenter Mary C., 48 Central street.	McDonald John H., 5 Davidson street.
Cherrington Leroy J., 41 Merrimack street.	Moore Mrs. Pamela C., 13 Water street.
Cochrane John, 272 Central street, 1883.	Newcomb James W., 14 Central street.
Cutler Nathaniel, 145 Central street, 1874.	Noonan Michael C., 25 South Whipple st.
Damon Silas J., 67 Merrimack street.	Painter John P., 151 Central street, 1873.
Daly James, 86 Suffolk street.	Pearson, John W., 192 Merrimack street.
Day Thomas J., 42 Willow street.	Pinkham, Arthur C., 224 Middlesex street.
Field James B., 243 Westford street.	Porter Samuel K., 6 John street, 1874.
Frost Charles C., 6 Stevens block.	Prescott, Mrs. Nancy A., 192 Westford street.
Gage J. Arthur, 48 Central street.	Rand William H., 24 Central street.
Gildee James B., 57 Dutton street.	Roy Joseph E. E., 136 Merrimack street.
Gelineau Arthur A., 98 Middlesex street.	Stuart Charles J., 20 John street.
Hall, Mrs. Hattie F., 120 Merrimack street, 1879.	Swaby John P., 413 Gorham street.
Hall Mary A., 17 Kirk street, 1866.	Thomas George F., 189 Middlesex street.
Harmon James M., 529 Middlesex street.	Thompson Marshall E., 222 Merrimack st.
Henotte Constant, 1 Salem street.	Winn Daniel K., 7 Kirk street.

The Dentists.

The following are the dentists in business in Lowell March 1. the date showing when they began business :

Bachelor, Elliott B., 48 Central street, 1885.	Heald, B. F., 52½ Merrimack street.
Barnes, Fred W., 76 Merrimack street.	Lanman, J. M., 20 John street.
Bates, G. C., 7 Elliot street.	Lawrence, Samuel, 14 Central street.
Burdick, J. Frank, 48 Central street, 1886.	Lowe, Edward A., 32 P. O. Building.
Clifford, C. T., 224 Middlesex street, 1883.	Miles, W. F., 69 Central street, 1884.
Coburn, H. W., 53 Merrimack street, 1876.	Pepin, John V., 120 Merrimack street.
Dennison, Geo. H., 84 Merrimack street.	Reilly, W. B., 78 Gorham street.
Downs, W. H., 115 Central street.	Sanborn, Manson M., 27 Central street.
Fesler, Frank J., 170 Merrimack street.	Simmons, E. H., 104 Merrimack street.
Folsom, James M., 188 Central street.	Snyder Bros., 60½ Merrimack street.
Gerry, Arthur C., Merrimack cor. John street.	Ward, S. L. & W. G., & A. W. Burnham,
Gerry, Gustavus A., Merrimack cor. John street, 1857.	office 18 Shattuck street, established 1837
Ham, C. W., 1 Prescott street.	by Dr. Geo. W. Ward.
	Walker, Hugh, Wyman's Exchange.
	Weaver, Fred A., 18 Hurd street.

Druggists and Apothecaries.

The following are the names of all the druggists and apothecaries doing business in Lowell March 1, 1886. The date at the end of each shows when the parties began business in Lowell, or when the concern was established :

Bailey F. & E. & Co., Merrimack cor. John street, established 1839.	Hayes Joseph R., 18 Central street.
Belle-Isle O. J., 23 East Merrimack street.	Henotte Constant, 22 Cabot street.
Blanchard C. F., 230 Middlesex street.	Hildreth Fisher A., 105 Middlesex street.
Brock Greenleaf C., 63 Bridge street, 1875.	Kimball Charles R., Merrimack cor. Central street, 1860.
Brothers Henry C., 260 Middlesex street.	Lang R. J., 212 Merrimack street.
Butler F. H. & Co., 141 Central street, 1865.	Mason D. W., 94 Suffolk street.
Carleton & Hovey, 164 Merrimack street, established 1827.	Molloy Terrence F., 99 High street.
Carter C. E., Branch street, cor. Smith.	Moody Frank P., Dutton cor. Fletcher.
Carter Mills O., Merrimack cor. Bridge street, 1870.	O'Brien Denis, 83 Bridge street.
Crowell Albert, 139 Central street, established 1848.	Osgood George C. & Co., Merrimack cor. Suffolk street, 1853.
Daly Cornelius A., 86 Suffolk Street.	Phelan's Drug Store, 87 Gorham street.
Daly James, 196 Gorham street.	Plunkett Joseph, Dutton cor. Market street.
Davis R. B., 224 Central street.	Porter Woodbury H., 68 Bridge street.
Delisle M., 362 Merrimack street.	Ramsdell E. L., Jr., 339 Merrimack street, 1865.
Dows A. W. & Co., 213 Central street.	Reilly B., 86 Church street.
Duncan W. W., 191 Middlesex street, 1857.	Reilly W. B., 78 Gorham street.
Ellingwood & Co., Mer k cor. Central, 1884.	Stevens A. C., 14 Middlesex street.
Field Albert L., 247 Thorndike street, 1879.	Shirley S. C., Gorham cor. Olive street.
Goodale Frank C., 113 Central street.	Thomasson Anders, 260 Central street, 1874.
Hamblet Eugene & Co., 325 Central street, established 1881.	Thompson M. E., 222 Merrimack street, 1848.
Hamilton Drug Store, A. J. Marston, agt., 109 Central street.	Webster Herbert E., 53 East Merrimack street.

Architects, Draughtsmen, Engineers, Engravers, Stenographers, &c.

Floyd, Warren L., 18 Shattuck street, Architect.
 Merrill & Cutler, 115 Central street, 1874, Architects.
 Miller, Frederick C., 345 Westford street, 1876. Architect.
 Stickney, Frederick W., Hildreth Building, Architect.
 Hyde, Kirkley, 33 Central street, Draughtsman.
 Whitaker, Channing, Hildreth Building, Steam and Mill Engineering.
 Hill, Nathaniel, 36 Central street, Civil Engineer.
 Coggeshall & Piper, 33 Central street, Wood Engravers.
 Rollins, F. E., Stenographer. Type-writer and Accountant, 12 Hildreth Building.

Various Private Instruction.

Drawing and Painting.—In oil and water colors. Miss Helen W. Wright, Studio, Savings Bank Building. Principal Free-hand department free evening drawing schools.

Drawing, Painting and Modelling.—Mrs. E. D. Carney, Studio, Savings Bank Building. Principal of Modelling department free evening drawing schools.

Cousens' Commercial College.—36 Central street.—O. M. Cousens, Principal. Established 1883.

Lowell Commercial College.—115 Central street.—Albert C. Blaisdell and LeDoit E. Kimball, Principals. Established 1860.

Miss Hill's School.—126 Worthen street.—Lucy A. Hill, Principal. Established 1871. Advanced English and Classical course for young ladies.

Lowell Conservatory of Music.—52 Appleton street.—Geo. F. Willey, Director.

Phonography.—W. H. Jones.—Mr. Jones is a member of the Phonetic Society of Great Britain, of which Mr. Isaac Pitman, a leading phonographic authority, is secretary. He has written Mr. Pitman's system for 11 years. Address W. H. Jones, Manager Western Union Telegraph Company.

Oratory, Dramatic Art and Voice and Physical Culture, Addie E. Noyes, graduate of Monroe Conservatory, Boston. 56 Princeton street.

Artists.

Furber George W., 18 Shattuck. photo-graphic.	Lawson Thos. B., 8 Savings Bank bldg.
Green Ella C. Miss. 400 Merrimack.	Leavitt Hulda J. Miss, 76 Merrimack.
Keppelmann H. W.. 33 Central, room 43.	Luscomb Otis, 105 Branch.
	Phelps W. P., 31 Hildreth building.

Music Teachers.

Adams Edward E.. 12 Middlesex, vocal.	Hamilton M. H. Mrs., 389 B'way, piano.
Brown J. I. Mrs., 199 Stackpole.	Hamilton Nellie, 391 Broadway, piano.
Crown Minnie E. Miss, 9 Butterfield, piano.	Leonard Hattie C. Miss, 131½ Merrimack cor. Colburn, piano.
Day Harry B.. room 7, Merrimack cor. John.	Mitchell Minnie Mrs., 112 Merrimack, vocal.
Emerson Cora M.. 128 Merrimack.	Owen Abby J. Miss, 52 East Merrimack.
Felton Henry F., 161 Central.	Prescott Lettie Miss. 19 Walker.
Fiske Nellie S., 111 Salem.	Spiers James A. Mrs., 8 Phillips, piano.
Foote Annie S. Miss. 277 Merrimack, piano.	Stevens S. W., Wyman's Exchange, room 13, piano, organ and harmony.
Gilman Fannie R. Miss, 47 Fletcher.	Wood Grace A. Miss, 124 Liberty, piano.
Grenier Oscar, 12 Prescott corp., Belvidere, violin.	Woodward J. F. Miss, 73 Branch, vocal.
Haggerty P. P., 77 Chestnut, vocal.	

THE BUSINESS OF LOWELL.

THE LARGE CORPORATIONS.

As Mr. Cowley has so well said in his article on "The Origin of Lowell," the existence of the city is due to the early establishment of large manufactories, mainly of textile fabrics. These are generally referred to as "The Corporations"—meaning those of large capital, and which have long been in existence. For several years these industries have been greatly depressed, but they are all running,

and are turning out immense products of goods, though at very small profit. The following are the salient facts concerning each of these large manufactories :

The Proprietors of Locks and Canals on Merrimack River.

Incorporated 1792.—Present Capital, \$600,000.—Officers: Treasurer, John T. Morse, 1845; Agent, James Francis, 1885; Consulting Engineer, James B. Francis (who was agent from 1845 to 1885). Directors, 1885-'86: James A. Dupee, President; Charles H. Dalton, Arthur T. Lyman, George Z. Silsbee, John C. Birdseye, Lucius M. Sargent, Augustus Lowell, George Atkinson, Robert H. Stevenson, John T. Morse.

The Proprietors of Locks and Canals have, since 1845, confined themselves to the management and improvement of the water-power and their remaining real estate (which exceeds 137 acres), under the control of a board of directors, consisting of the treasurers of the corporations to whom they lease water-power. Their offices are on Broadway, near Dutton Street. The origin of the company is related in Mr. Cowley's article.

Merrimack Manufacturing Company.

Incorporated 1822.—Capital Stock, \$2,500,000.—Number of Spindles, 156,672. Number of Looms, 4620. Males employed, 1100. Females employed, 2200. Monthly pay-roll, \$66,000. Turbine wheels, 10. Steam engines, 97—6000 horse power. Annual production, 52,000,000 yards cotton cloth. Officers—Directors, Seth Bemis, President; George B. Chase, Arthur T. Lyman, C. William Loring, Charles H. Dalton, Augustus Lowell, Charles P. Bowditch. Treasurer, Charles H. Dalton. Agent, Joseph S. Ludlam. Superintendent of Mills, Edward P. Dennis. Superintendent of Print Works, Joseph Leatham. Paymaster, John H. Caverly. Selling Agents, Wheelwright, Anderson & Co., Boston, Mass.

Hamilton Manufacturing Company.

Incorporated 1825.—Capital Stock, \$1,800,000.—Number of Spindles, 109,816. Number of Looms, 3035. Males employed, 810. Females employed, 1286. Weekly pay-roll, \$11,000. Turbine wheels, 10. Steam engines, 37—2500 horse power. Annual production, 48,683,960 yards cotton cloth. Officers—Directors, James Longley, President; Thomas Wigglesworth, Charles Henry Parker, Henry S. Grew, Edward I. Browne, James H. Sawyer, James A. Dupee. Treasurer, James A. Dupee. Clerk, Charles W. Jones. General Superintendent, Oliver H. Moulton. Assistant Superintendent, Ferdinand Rodliff. Assistant Superintendent of Print Works, Thomas Walsh. Paymaster, Ferdinand Rodliff, Jr. Selling Agents, Joy, Langdon & Co., Boston and New York.

Appleton Company.

Incorporated 1828.—Capital Stock, \$600,000.—Number of Spindles, 45,064. Number of Looms, 1224. Males employed, 250. Females employed 570. Monthly pay-roll, \$17,500. Turbine wheels, 5. Steam engines, 2—750 horse power. Annual production, 13,468,000 yards of cotton cloth. Officers—Directors, William S. Appleton, President; Edward I. Browne, Edward Spaulding, Henry C. Howe, William A. Burke, Charles U. Cotting, J. Herbert Sawyer. Treasurer, James A. Dupee. Clerk, Daniel L. Pendergast. Superintendent, Daniel Wright. Assistant Superintendent, J. F. Scholfield. Paymaster, D. E. Stimpson. Selling Agents, Upham, Tucker & Co., Boston and New York.

Lowell Manufacturing Company.

Incorporated 1828.—Capital Stock, \$2,000,000.—Number of Spindles, 24,750. Number of Looms, 335. Males employed, 700. Females employed, 1000. Monthly pay-roll, \$42,000. Turbine wheels, 3. Steam engines, 5—1650 horse power. Annual production, 3,124,000 yards of carpeting. Officers—Directors, Daniel S. Richardson, S. L. Thorndike, Augustus Lowell, Israel G. Whitney, George C. Richardson, Augustus T. Perkins. Treasurer, Arthur T. Lyman. Superintendent, Alvin S. Lyon. Paymaster, Landon Adams. Selling Agents, Smith, Hogg & Gardner, Boston and New York.

Middlesex Company.

Incorporated 1830.—Capital Stock, \$750,000.—Number of Spindles, 18,640. Number of Looms, 200—broad. Males employed, 400. Females employed, 300. Monthly pay-roll, \$18,000. Number of turbine wheels, 2. Number of breast wheels, 3. Steam engines, 3—250 horse power. Annual production, 1,300,000 yards of beavers, sackings, yacht cloths and eashmeres. Officers—Directors, Benjamin F. Butler, P. H. Wentworth, George Higginson, T. Jefferson Coolidge, James L. Little, M. R. Wendell. Treasurer, George Z. Silsbee. Agent, Oliver H. Perry. Superintendent, Orlando Saunders. Paymaster, Albert A. Haggett. Selling Agents, Wendell, Fay & Co., Boston and New York.

Tremont and Suffolk Mills.

Suffolk Manufacturing Company, incorporated Jan. 17, 1831.—Proprietors of Tremont Mills, incorporated March 19, 1831, consolidated 1871.—Capital Stock, \$1,200,000.—Number of Spindles, 100,000. Number of Looms, 3000. Males employed, 600. Females employed, 1000. Monthly pay-roll, \$40,000. Number of turbine wheels, 8. Number of steam engines, 3—2000 horse power. Annual production, 29,131,960 yards cotton cloth. Officers—Directors, George C. Richardson, Frederick Ayer, Arthur T. Lyman, James W. Clark, Edwin Lawrence, Frederick F. Ayer. Treasurer, John C. Birdseye. Agent, Thomas S. Shaw. Paymaster, Alfred M. Chadwick. Selling Agents, Smith, Hogg & Gardner., Boston and New York.

Lawrence Manufacturing Company.

Incorporated 1831.—Capital Stock, \$1,500,000.—Number of Spindles, 120,000. Number of Looms, 3432. Males employed, 1051. Females employed, 2089. Monthly pay-roll, \$71,754. Turbine wheels, 11. Steam engines 5—2500 horse power. Annual production, 22,100,000 yards of cotton cloth, and 260,000 dozens hosiery. Officers—Directors, J. Huntington Wolcott, T. Jefferson Coolidge, William P. Mason, George A. Gardner, Channing Clapp, Arthur T. Lyman, Lucius M. Sargent. Treasurer, Lucius M. Sargent. Clerk, Henry C. Richards, Agent, John Kilburn. Paymaster, Charles R. Goddard. Selling Agents, George C. Richardson, Smith & Co., Boston and New York. Selling Agents, Townsend & Yale, New York.

Boott Cotton Mills.

Incorporated 1836.—Capital Stock, \$1,200,000.—Number of Spindles, 140,024. Number of Looms, 3889. Males employed, 523. Females employed, 1637. Monthly pay-roll, \$48,500. Turbine wheels, 9. Steam engines, 2—2200 horse power. Annual production, 36,400,000 yards cotton cloth. Officers—Directors,

Lemuel Shaw, President; Augustus Lowell, C. William Loring, Richard D. Rogers, T. Jefferson Coolidge, Arthur T. Lyman, Edward W. Hooper. Treasurer, Augustus Lowell. Agent, Alexander G. Cumnock. Superintendent, Zachariah D. Hall. Paymaster, James G. Marshall. Selling Agents, Smith, Hogg & Gardner, Boston and New York.

Massachusetts Cotton Mills.

Incorporated 1839.—Capital Stock, \$1,800,000.—Number of Spindles, 119,528. Number of Looms, 3652. Males employed, 531. Females employed, 1205. Monthly pay-roll, \$43,536. Turbine wheels, 13. Steam engines, 2—1200 horse power. Annual production, 46,442,032 yards of cotton cloth. Officers—Directors, J. Ingersoll Bowditch, Augustus Lowell, George Atkinson, Robert Treat Paine, Jr., Edward I. Browne, George A. Gardner, B. W. Crowninshield. Treasurer, George Atkinson. Agent, Frank F. Battles. Superintendent, William S. Southworth. Paymaster, David Healey, Jr. Selling Agents, Smith, Hogg & Gardner, Boston, store, No. 66 Chauncey street.

Lowell Machine Shop.

Incorporated 1845.—Capital Stock, \$900,000.—Men employed, 1600. Monthly pay-roll, \$44,000. Turbine wheels, 7. Steam engines, 3—430 horse power. Annual production, cotton machinery represented by 160,000 spindles. Officers—Directors, Richard D. Rogers, President; J. Huntington Wolcott, T. Jefferson Coolidge, S. G. Snelling, William A. Burke. Augustus Lowell, Robert H. Stevenson. Treasurer, Robert H. Stevenson. Agent, Charles L. Hildreth. Paymaster, William W. Sherman.

Lowell Bleachery and Dye Works.

Incorporated 1832.—Capital Stock, \$300,000.—Number of men employed, 360. Females employed, 40. Turbine wheels, 1. Steam engines, 2—1050 horse-power. Number of yards dyed, 15,000,000. Number of yards bleached, 10,000,000. Treasurer, Samuel G. Snelling. Agent, F. P. Appleton. Paymaster, Hamilton Burrage.

Lamson Store Service Company.

This, though now organized under the laws of another state, is one of the "large corporations" of Lowell. Its large capital represents numerous valuable patents, and its representation is not confined to this continent. The company was originally organized in Jan., 1882, as the "Lamson Cash Carrier Company," under the laws of Massachusetts, with a capital of \$65,000. It was re-organized in March, 1885, under the name of "The Lamson Cash Railway Company," with a capital of \$1,000,000. It was again re-organized in December, 1885, under the laws of New York, with a capital of \$5,000,000. The officers are Frank W. Fitts of Manchester, N. H., President. William S. Lamson of Lowell, Secretary, Treasurer and General Manager. Board of Trustees, Frank W. Fitts, William S. Lamson, A. J. Lane of Manchester, N. H., H. H. Hayden, M. B. Cary, Lucien C. Warner, Oliver H. Corsa and Chas. D. Baker, all of New York City. General Agent, F. A. Spear of Lowell. This Company manufactures and leases cash and parcel carriers for stores throughout the United States and Europe. Factory on Walker street, Lowell. Employs 100 men.

MINOR CORPORATIONS.

The minor corporations of Lowell form no inconsiderable portion of its industries. They are various in character, and have largely increased within the past ten years, so that we have now a greatly diversified industry, which is of material benefit to the city. The following facts concerning them we take mainly from the Lowell Year Book published by the Morning Mail Company. This admirable little publication, which comes out at the beginning of each year, of course gives many details as to our industries, which are beyond the scope of "The Bivouac," and any who desire to get at the statistical facts minutely will find it a most helpful volume. The minor corporations, as we call them, are organized—some under Massachusetts laws, and some under the laws of other states:

AMERICAN BOLT COMPANY, Lawrence street. James Minter, president; Miles F. Brennan, treasurer. Manufacture bolts for railroad, bridge, and other purposes, and nuts, screws and washers. Fifteen hundred tons of iron are consumed annually. 150 men are employed.

ATHERTON MACHINE COMPANY. Manufacture cotton openers, spinning lappers and carding machines, employing 235 hands in the several departments. The works are located in the town of Tewksbury, about two miles from the Lowell Post Office, on the line of the Boston and Maine Railroad. The concern has grown with unparalleled rapidity, and does an immense business. Though the plant is located in Tewksbury, it is virtually a Lowell company. The president is A. A. Coburn; treasurer, A. T. Atherton; manager, James C. Potter.

THE J. C. AYER COMPANY, manufacturers of Ayer's Cherry Pectoral, Ayer's Sarsaparilla, Ayer's Ague Cure, Ayer's Hair Vigor, and Ayer's Pills. Laboratory on Market street; office, 98 Middle street. Thirty-eight persons employed in the office as clerks and correspondents, and 250 persons in the laboratory, printing room and bindery. Thirteen millions of Ayer's Almanacs are issued annually, printed in ten languages: English, French, German, Dutch, Norwegian, Swedish, Spanish, Portuguese, Welsh and Bohemian. Six hundred tons of paper are annually consumed. Business established in 1846.

BELVIDERE WOOLEN COMPANY. Marshall P. Wilder, president; Ezra Farnsworth, treasurer; Charles A. Stott, agent. Mill No. 1, on Howe street, has 7 sets of cards. Mill No. 2, on Lawrence street, E. D. Holden, agent, and John Stott, superintendent, has 9 sets of cards. Both mills manufacture flannels, and give employment to 250 operatives. This company was incorporated in 1853, but the mill property had been in use since 1832.

BYFIELD MANUFACTURING COMPANY, manufacturers of machines for knitting hosiery. Works, Wier's block, Market street. 20 men are employed.

COBURN SHUTTLE COMPANY, corner of Lincoln and Tanner streets, manufacturers of shuttles, bobbins, and spools. Edwin Lamson, president; Charles T. Goddard, treasurer. Capital, \$100,000. Employ 30 men.

HISCOX FILE MANUFACTURING COMPANY AND MACHINE KNIFE WORKS. Established 1862; present company organized 1874. President, James W. Bennett; treasurer, Jared P. Maxfield; superintendent, Samuel Naylor. Employ 100 hands. The buildings, on the bank of the Stony Brook in the town of Chelmsford, are seven in number, and cover an area of $7\frac{1}{2}$ acres. Power is furnished by two turbine wheels and a Harris-Corliss engine. Files and rasps of all sizes are manufactured, and also machine knives of every description, paper mill engine bars and plates, butcher, skinning and sticking knives, and sword blades. They also have large contracts with Western firms for the manufacture of several patented articles. Capital, \$60,000. This is another company whose plant is outside the city, but it is virtually a Lowell company.

HUMPHREY AUTOMATIC OILER COMPANY, H. B. Humphrey, trustee. Manufacture automatic oilers at 265 Middlesex street.

KITSON MACHINE COMPANY, Dutton street, Jacob Rogers, president and agent; Haven C. Perham, treasurer. Manufacturers of latest improved cotton opening and lapping machinery, of which they ship, on an average, 15 or 20 car-loads per month. Two hundred men are employed.

LOWELL CARD COMPANY, corner Market and Shattuck streets, Jeremiah Clark, president, S. S. Gould, treasurer; 83 machines are used in the manufacture of card clothing for carding cotton and wool, all of their own make. Twenty-one hands are employed.

THE LOWELL GAS LIGHT COMPANY was incorporated in 1849. Capital \$500,000. The works, located on School street, near the Nashua and Lowell railroad, annually consume 14,000 tons of coal and 30,000 bushels of lime; furnishing an annual product of 150,000,000 cubic feet of illuminating gas, supplied to consumers at present for \$1.30 per thousand feet. The gas is distributed through about 45 miles of pipe. One hundred men are employed at the office and works. S. G. Mack is president; Jacob Rogers, treasurer; D. B. Bartlett, secretary; Oliver E. Cushing, agent. Office, No. 22 Shattuck street.

THE LOWELL CO-OPERATIVE MILK ASSOCIATION is incorporated under the general corporation law. It has a capital of \$25,000, divided into 1250 shares of \$20 each. It owns about 36,000 feet of land on Hildreth street (Centralville), and has a creamery building with all appliances for making butter, and selling milk and cream. It is co-operative, as its name implies, the milk producers who are shareholders receiving such a price for their milk as the results of the business warrant. The directors are H. R. Barker, President; Daniel Gage, Chas. Coburn, Edwin Gowing, S. N. Wood, Porter Livingston, Chas. H. Stickney. S. N. Wood is treasurer. The association is now receiving about 600 cans of milk a day.

LOWELL HOSIERY COMPANY. Incorporated 1869. Paid-up capital \$200,000. C. H. Latham, president; W. F. Salmon, treasurer and manager. Works and manager's office on Mt. Vernon street. Bliss, Fabyan & Company, Boston, New York and Philadelphia, selling agents. Manufacture annually 275,000 dozen women's plain cotton hose, 150,000 dozen women's and children's fancy cotton hose, and consume 800,000 pounds of cotton and yarn yearly. Employ 100 males and 200 females. During the past year the company have sunk an artesian well, which yields about 6000 gallons of water in ten hours.

LOWELL TOOL AND ENGINE COMPANY. Ayer's City, near Old Colony Engine House, manufacture engines up to 60 horse power. Duncan McNabb, president; Donald McNabb, treasurer. Employ 8 men.

MOXIE NERVE FOOD COMPANY, headquarters Nos. 137 and 139 Market street. Organized July 1, 1885. Capital stock, \$500,000—5000 shares, par value of \$100 each. J. C. Moore, president; Geo. A. Byam, treasurer; A. Thompson, general manager. Have branch manufactories at Bangor, Me., Syracuse, N. Y., Baltimore, Md., New York City, and Los Angeles, Cal., and employ, in the aggregate, 66 hands and five horses. Employ in Lowell 24 hands and two horses. Put up in Lowell and sold 478,000 bottles first 5½ months. Capacity of works in Lowell, 24,000 bottles per week.

NANTASKET ROLLER SKATE COMPANY, No. 92 Middle street. Samuel P. Griffin, treasurer; Wm. N. Osgood, secretary; Samuel P. Griffin, Wm. N. Osgood, S. C. Smith, directors. Capital stock, \$100,000. Manufacture Butterfield's Patent Roller Skates. Produce 100 pairs a day.

NATIONAL PLASTER COMPANY, corner Middlesex and Central streets. Incorporated 1883. Manufacture all kinds of mechanical and medicinal plasters. Employ 7 hands.

SHAW STOCKING COMPANY. J. Herbert Sawyer, president; E. W. Hoyt, treasurer; B. F. Shaw, manager. Incorporated in 1877, and have a capital stock of \$240,000. Manufacture the patent Shawknit stockings. Mill and office on

Smith street. Employ 225 operatives, and run 140 stocking looms, with an average daily production of 5600 pairs. The goods embrace cotton, merino, and woolen half-hose for men and boys, and women's and misses' hose.

SHOREY SPRING BED AND SHADE ROLLER COMPANY. James Duckworth, president; Charles F. Kidder, treasurer and clerk. Manufacture Shorey's Improved Spring Balance Shade Roller, Union Shade Roller, and Shorey's Improved Spring Bed. Factory, Gates' Block, Market street. Employ 8 men.

STIRLING MILLS, off Lawrence street, manufacture flannels. Incorporated January, 1881. The officers are Ezra Farnsworth, president; Benj. Phipps, treasurer; E. D. Holden, agent. Selling agents, Parker, Wilder & Co., Boston and New York. The mills have 64 looms, about 4000 spindles, and employ 95 hands, making 1,200,000 yards of flannel per year. The mills have been enlarged and improved the past season.

TALBOT DYE-WOOD AND CHEMICAL COMPANY. Manufacture sulphuric, muriatic and nitric acids, oil vitriol, extract of indigo, blue vitriol, solution of tin, zinc and antimony, tin crystals, drugs, dye-woods, etc. Office, Market House Building, Lowell. J. D. Gould, president; James F. Preston, treasurer. Directors: Joseph D. Gould, Charles H. Kohlrausch, Jr., James F. Preston, William P. Gould, George M. Preston. Employ about 30 men. Established in 1840. Incorporated in 1884.

THE COUGHLIN ELASTIC BLOTTER COMPANY, No. 3 Central street. Incorporated in 1882, with a capital of \$25,000. William J. Coughlin, president; H. W. Coburn, treasurer. Manufacture Coughlin's Elastic Blotter and Blackboard Eraser. Eight gross of the former and twelve of the latter are made per week. Five men employed.

THE CUTTER & WALKER MANUFACTURING COMPANY. Jacob Nichols, president and treasurer. Manufacturers of shoulder braces, suspenders, abdominal supporters, and shoe linings. One hundred hands are employed at the works, which are located at 180 Middlesex street.

THE MIDDLESEX ELECTRIC LIGHT COMPANY, with a capital of \$150,000, now furnish nearly 300 lights for illuminating stores and streets. The officers are as follows: President, G. W. Fifield; secretary and treasurer, John H. McAlvin; manager, J. Y. Bradbury. The office is at the station on Middle street.

THE UNITED STATES AND FOREIGN SALAMANDER FELTING COMPANY. New England branch, Elevator Building, Western Avenue. John Babson, 21 Commercial Wharf, Boston, treasurer. Manufacture the only perfect non-conductor known, used for covering steam boilers, pipes and hot-blast pipes.

UNITED STATES CORD COMPANY. Prentiss Webster, president, Paul Butler, treasurer. Manufacture solid braided cords of cotton, linen and worsted, for all purposes. Works at Whipple's Mills. Employ 10 hands, and consume, on an average, 200 pounds of cotton per day.

LARGE INDIVIDUAL CONCERNS.

There are numerous unincorporated manufacturing concerns in Lowell which deserve prominent mention. It is not an easy task to draw the line as to those which should be thus distinguished, but for convenience we put under this head those which sometimes employ 50 or more hands. Of course there are those employing fewer hands which do even a larger business, but we have no means at hand for making a classification on a different basis:

REUBEN AREY, successor to Arey & Maddock, corner of Lincoln and Tanner streets, Ayer's City. Prepares grain, buff, wax, and split leather. Employs from 150 to 200 hands.

JAMES DUGDALE, Willie street, manufacturer of worsted yarns for cassimeres, knit goods and coatings. Employs 85 hands.

L. W. FAULKNER & SONS (Frederick and John A.), manufacturers of flannels, sackings and dress goods fabrics. Their mill off Lawrence street, rebuilt in 1881, has 8 sets of cards. They also operate the Livingston Mill, on Thorndike street, with 5 sets of cards. The machinery in both mills embraces 10,500 spindles and 154 broad looms. The product of both mills amounts to between \$500,000 and \$600,000 per year. About 350 operatives are employed.

GEORGE W. FIFIELD, Nos. 22-28 Fletcher street, manufacturer of engine lathes and machinists' tools. Employs 70 hands.

E. HAPGOOD & SON, manufacturers of all kinds of mattresses. Office, 77 and 79 High street; mills on Lawrence street. Also, have a mill at North Troy, Vt., for the manufacture of excelsior, and a distributing house in Chicago. Employ from 40 to 50 men.

C. I. HOOD & COMPANY prepare Hood's Sarsaparilla, Hood's Tooth Powder, Hood's Olive Ointment, Hood's Vegetable Pills. Laboratory on Thorndike street, opposite South Common. Publish annually 6,000,000 copies Hood's Item, 3,000,000 copies Hood's Cook Books, besides circulars, cards, etc. Employ from 100 to 150 hands.

LOWELL STEAM BOILER WORKS, Richard Dobbins proprietor, manufacturer of steam boilers, bleachers and bleaching kiers, tanks for all purposes, penstocks, flumes and quarter-turns for turbine wheel work, etc. Also, Dobbins' hollow steam press-plates, and fire-escapes of the most approved pattern. Works, corner of Cambridge and Turner streets, Ayer's City. Employs on an average from 40 to 75 men, and uses about fifty tons of iron and steel per month. Established in 1856.

GEORGE NAYLOR, manufacturer of ingrain carpets and worsted and filling yarns. Mill on Crosby street. Employs 110 operatives and runs 48 looms.

PARKER & CHENEY, Wamesit Steam Mills, Dutton street, manufacturers of bobbins for the Sawyer, Pearl, Birkenhead, and other patent spindles, and spools, shuttles and skewers of every description, for the manufacture of cotton, wool, silk, flax, hemp and jute. Also, oak columns for stores and factories, frame pins, etc. They employ 160 men.

FRANK S. PERKINS, Fletcher street, nearly opposite Worthen, manufacturer of lathes and machinists' tools. Engine lathes a specialty. Employs from 40 to 50 men.

JOHN M. PEVEY, corner of Walker and West Adams streets, manufacturer of knitting cottons, suspender yarn, suspenders, macramé cord, and yarns to order. Mill 122 by 72 feet, and three stories high, with boiler extension. Corliss engine of 150 horse-power. Runs 5872 spindles, producing 2000 pounds per day. Employs 75 hands.

PICKERING KNITTING COMPANY, corner of Tanner and Lincoln streets. J. W. C. Pickering, treasurer. Manufacture gauze underwear for men and women. Employ 75 hands.

SCANNELL & WHOLEY, manufacturers of steam boilers, stand pipes and reservoirs, kettles, kiers, steel and iron plate work, fire escapes, and general iron works. Works on Tanner street, end of Howard. Employ from 30 to 60 men, and consume from 40 to 50 tons of iron per month. Established, 1880.

THORNDIKE MANUFACTURING COMPANY. Mill, No. 205 Thorndike street. Warerooms, Nos. 70 and 72 Franklin street, New York. James G. Buttrick, treasurer; A. L. Russell, agent. The company employ from 150 to 175 hands, run 35

looms and 24 sewing machines, and produce an average of 500 dozen pairs of suspenders per day. Began business in 1870. The proprietors are Asa C. Russell, James G. Buttrick, Bartlett C. Merrill and Alonzo L. Russell.

UNITED STATES BUNTING COMPANY, Walter H. McDaniels, manager. Manufacture worsted dress goods and bunting. The mill is located on Crosby street, and has 5 sets of cards, 6 combs, 5000 spindles, and 220 looms, requiring the employment of 450 hands, and using about 3000 pounds of wool per day.

UNITED STATES CARTRIDGE COMPANY. Capital stock, \$150,000. Benjamin F. Butler, president; Paul Butler, treasurer; C. A. R. Dimon, superintendent; James B. Russell, paymaster. Manufacture metallic cartridges, paper shells for shot-guns, and primers, producing 6,000,000 of the former, 1,500,000 of the paper shells, and 2,000,000 of the primers per month. Began business in 1869.

WILLIAM WALKER & COMPANY, manufacturers of indigo-blue flannels and ladies' sackings. Mill at Massic Falls, No. 118 Lawrence street. Have 5 sets of cards, 1600 spindles and 24 looms, and about 75 hands are employed.

JOHN WALSH & SONS, manufacturers of worsted yarns and worsted dress goods. New mill at Meadowville, off Lawrence branch of Boston and Lowell railroad, has 5000 spindles and 60 looms. Employ 25 males and 175 females.

WOODS, SHERWOOD & COMPANY (E. P. Woods, Daniel Sherwood, C. H. Latham), manufacturers of standard white lustral wire ware of every description, and gold-plated fancy goods. Factory, Bridge street, foot of Seventh. The firm give employment to 70 hands. Established in 1861.

MANUFACTORIES EMPLOYING 10 TO 50 HANDS.

As we have said, the division between those concerns employing 50 hands or more, and those employing fewer, is entirely arbitrary, but for convenience in the use of type some division has to be made to enable the printers to get the book out in the short time allowed. The following concerns employ from 10 to 50 men each:

MILTON ALDRICH, Mechanics' Mills, Dutton street, manufacturer of wooden screws and clamps. Employs from 10 to 13 hands. The business was established in 1844. Mr. Aldrich has just fitted up a new shop.

OTIS ALLEN & SON, Mt. Vernon street, sole manufacturers of Allen's Lock-Cornered Filling Boxes; also doffing boxes, roving cabs, and mill work generally. A new 150 horse-power engine, with boiler, has recently been put in. About 40 men are employed.

ANDREWS & WHEELER, monumental granite and marble works, Thorndike street, near Middlesex Street Railway Station. Employ from 20 to 25 men. Established in 1857.

WILLIAM ANDREWS & Co., Sphinx Monumental Works, near Bleachery Railway Station. Marble and granite work of all kinds. Employ 20 men.

SAGER ASHWORTH & Co., Nos. 7 and 9 Fletcher street. Employ 15 men, and consume from 1 to 1½ tons of steel per month.

C. E. AUSTIN & Co., No. 37 Shattuck street, manufacturers of "Austin" pianos and organ springs. Employ 12 men. Salesroom as above.

A. BACHELDER & Co., proprietors of the New England Bung and Plug Factory. Also, manufacturers of doors, sashes, and blinds of every description. Mill on Mt. Vernon street. Employ 30 hands.

J. C. BACHELDER, successor to C. B. Stevens & Son, Elevator building, Western avenue, stair builder and manufacturer of hard and pine mouldings and house finish of every description. Wood turning a specialty. Employs 13 men.

BACHELLER, DUMAS & CO., Nos. 130 and 134 Central street. Book and pamphlet binding of every description; paper ruling and lettering in gilt on books, albums, pocket books, travelling bags, silk, leather, etc. Blank book manufacturing a specialty. Employ about 18 hands.

BADGER & HOLMES, manufacturers of house finish and all kinds of wood work, Mechanics' Mills. Also, manufacturers of roller skates. Wood turning a specialty. Employ 10 men.

W. H. BAGSHAW, 11 Wilson street, off Chelmsford, manufacturer of needle and diamond-pointed leather card clothing. Also, card, picker, hackle, gill, comb, rope, and flat pins, etc. Employ 20 hands.

H. R. BARKER, No. 92 Middle street, manufacturer of steam, gas and water fittings, globe and angle valves. Repairs of all kinds—steam engines and printing presses a specialty. Employs 35 men. Store, Nos. 8 and 10 Central street.

S. BARTLETT, manufacturer of soda and mineral water, tonic beer, ginger ale, nerve food, etc., No. 76 Middlesex street. Employs 14 men in the busy season. During the past year he has made and put up about 15,000 dozens of quart bottles and 12,000 dozens of half pints; also, charged about 1300 soda fountains.

D. C. BROWN, manufacturer of reeds, harnesses and patent wire heddles, for cotton and woolen mills. Established 1836. Mill on Warren street, near Church. Employs 30 hands.

BROWNING, LADD & SPEIRS, No. 237 Middlesex street, agents for the Avery steam boiler for house heating. Pipers and plumbers, and dealers in gas and water fixtures.

A. L. BROOKS & Co., Mechanics' Mills, corner of Fletcher and Dutton streets, manufacturers of packing cases, in which they consume about 1,500,000 feet of lumber annually. They also make mouldings and gutters, and run a saw-mill at Middlesex Village. Employ 12 men in box shop and 43 in other kinds of work. Business established in 1835 on Howe street, afterwards removed to yard of the Middlesex Company, and established in present location in 1846. Mills rebuilt in 1885.

JOSIAH BUTLER, manufacturer of cotton batting and dealer in waste. Mill on River Meadow Brook, Gorham street. Employs 20 hands. About 2000 pounds of cotton are consumed daily. Also dealer in paper-stock and paper.

GEORGE L. CADY, corner of Western avenue and Fletcher street, manufacturer of machinists' tools and loom-harness hooks and eyes. Dealer in machinists' and mill supplies. Employs 15 men. Established in 1857.

W. W. CAREY, No. 190 Broadway, manufacturer of wood-working machinery and wood-rim pulleys. Employs 40 hands.

MARCUS D. COLE, manufacturer of the original Pettingell chimney caps, large numbers of which are annually sold throughout New England. Steam chimney caps, from 500 to 5000 pounds, a specialty. Office, corner of Rock and Fletcher streets.

COLE & NICHOLS, brass and iron founders, corner of Dutton and Willie Streets. Employ 50 men. About 1500 tons of iron used annually.

GEORGE H. CONVERS, carriages and harnesses, chiefly order work and repairs. Shop No. 173 Central street. Employs 12 men.

T. COSTELLO & COMPANY, No. 126 Central street, plumbers and tin, sheet, iron and copper workers. Employ 18 men.

CROSBY FURNITURE COMPANY, Mechanics' Mills, manufacturers of chamber sets, parlor suits, mantels, side-boards, book-cases, roll-top desks and secretaries. Warerooms, Fletcher street. Employ 15 men.

DANIEL CUSHING & Co., manufacturers of plain and ornamental galvanized iron and copper work, No. 218 Middlesex street. Employ from 10 to 20 men. Consume annually about 40 or 50 tons of galvanized sheet iron, and from 8 to 10 tons of cast and wrought iron. Established in 1835.

JAMES DACEY & COMPANY, Worthen street, corner of Fletcher street, wire workers. Manufacturers of all kinds of plain and fancy wire goods, office railing, window guards, etc.

W. L. DAVIS, Davis & Sargent's building, 265 Middlesex street, manufacturer of elastic and non-elastic webbing. Employs 12 hands.

DAVIS & SARGENT, No. 275 Middlesex street, manufacturers of packing boxes. Consume about 150,000 feet of lumber per month. In the rear of their shop they operate the only saw-mill for all kinds of lumber in the city, about 5,000,000 feet being turned out annually. Forty-five men are employed.

JOHN DUCKWORTH (successor to Duckworth & Knowles), manufacturer of files and rasps, No. 30 Middlesex street. Business confined chiefly to re-cutting. Employs 11 men.

H. F. EBERT, harnesses, No. 49 Market street. Employs from 10 to 12 men.

FARRELL & CONATON, No. 54 Dutton street, manufacturers of steam, gas and water fittings. Plumbing also done to order. Employ 16 men.

SILAS W. FLETCHER, Whipple's Mills, manufacturer of doors, sashes and blinds. Employs 6 men.

T. R. GARITY & COMPANY manufacture steam, gas and water fittings. Steam boiler work a specialty. Shop, No. 265 Middlesex street. Office, No. 94 Central and 2 Warren streets. Employ 4 men manufacturing and 25 plumbing and steam fitting.

JOSIAH GATES & SONS, corner of Market and Dutton streets, manufacturers of belting, hose, lace-leather, loom-straps, and pickers, cotton-spinning banding, harness-leather, etc. Consume 20,000 hides per annum in the manufacture of belting and hose, the skins being curried at their tannery on Chelmsford street. They also tan about 5000 hides per annum for worsted aprons and lace-leather. Thirty men are employed at the shops and tannery.

CHARLES GOULD, Dutton street, opposite Wamesit Mills, manufacturer of cider and spruce beer. Employs 25 men in the busy season, and makes nearly 5000 barrels of cider annually. Puts up in bottles about 3500 dozens.

GREEN & MATHER, No. 12 Hale street, manufacturers of rugs and mats of every description, including Turkish, beam, wool-tufted, Adelaide, Sisal and wool rugs. Employ 12 hands.

LEWIS D. GUMB, corner of Gorham and Maple streets, prepares granite for cemetery and building purposes. Polishing done by steam power. Employs 15 men. Established in 1873.

HALLOWELL & BERRY, No. 127 Market street, manufacturers and finishers of brass goods Employ 10 men.

GEORGE W. HARRIS, loom harness mill on Merrimack river, above the Lawrence Corporation. Runs 1 English, 9 double-knot, and 16 of the Harris machines (his own invention). Manufactures all the usual sizes and special orders. Employs 35 hands.

HAWORTH & WATSON, corner of Lincoln and Tanner streets, manufacturers of standard paper cop tubes. Also, proprietors of "Acme Cop Tube Company."

W. H. HOPE & COMPANY, No. 3 Cushing street, manufacturers of milled machine screws, bolts, etc. Employ about 15 men.

SAMUEL HORN & COMPANY, near corner of Middlesex and School streets, manufacturers of hard, soft and mill soaps. Also, renderers of prime tallow. Employ 10 men.

E. W. HOYT & COMPANY, manufacturers of Hoyt's German Cologne. Manufactory, corner of Church and George streets. Put on the market 12,000 gross, or nearly 2,000,000 bottles (large, medium and small) per annum, and annually distribute about 12,000,000 illuminated perfumed cards. Employ 20 hands.

HUNTOON MACHINE COMPANY, corner of Lincoln and Tanner streets. Manufacture engine and speed lathes, dynamometers, etc. Employ from 10 to 12 men.

J. S. JAKUES & COMPANY (J. L. Jaques, C. E. Smith), manufacturers of power-loom shuttles for every description of work. Factory at Whipple's Mills. Employ 30 men.

P. M. JEFFERSON, No. 85 Charles street, manufacturer of family, laundry, ammonia, chemical, factory, scouring and soft soaps. Runs from 6 to 8 teams. He has also a manufactory in Andover. Makes 8000 pounds of hard and ammonia soap, 12,000 of scouring. Established in 1860.

WILLIAM KELLEY & SON, Mechanics' Mills, manufacturers of doors, sashes and blinds, window frames, and house finish generally. Employ 20 men, and consume between 300,000 and 400,000 feet of lumber annually. Established in 1845.

C. A. KENDALL, No. 247 Gorham street, near Davis' corner, manufacturer of hydraulic cement drain, sewer and culvert pipe, from 3 to 24-inch bore. Also, improved chimney tops and well pipe. Employs 10 men.

R. W. KENDALL & CO.'S PRINT AND DYE WORKS, off Lawrence street, near Lowell Cemetery. G. R. Fisher, superintendent and agent. Occupy building on the premises of the Wamesit Power Company, 125 by 60 feet, and three stories high. Print and dye from 8,000 to 10,000 yards of cotton flannel per day, and employ 25 men.

JOEL KNAPP, No. 257 Middlesex street (successor to the late George L. Richardson), machinist, and manufacturer of washers, nuts, bolts, screws, etc., and machinery of all kinds. Employs 10 men.

BENJAMIN LAWRENCE, manufacturer of engine and hand lathes and shapers; also, combined index and milling machines. Shop, No. 196 Broadway. Ten hands employed.

LITTLEFIELD & PEASE, Warren street. Employ 30 hands, and make, on an average, 4,000 boxes of all kinds per day. This is the oldest manufactory of the kind in the county, having been established in 1866.

WILLIAM E. LIVINGSTON, Thorndike street. Mill of 65 horse power and four runs of stones for grinding corn, rye and plaster. Grind about 300 bushels of corn and rye per day. Mr. Livingston also does a general business in coal, hay, lime, cement, grain, feed, etc.

DANIEL LOVEJOY & SON, manufacturers of machine knives of every description. Works at corner of Rock and Cushing streets. Employ 23 men.

LOWELL CRAYON COMPANY, No. 70 Ford street. Sam Chapin, manager. Manufacture colored chalk crayons, expressly for the use of cotton mills, and other mill supplies.

LOWELL FELTING MILLS, Pawtucket street, Henry M. Thompson, proprietor and treasurer. Manufactures all kinds of hair felting for packing and lining purposes. About 1,200,000 pounds of American and Russian cattle hair are consumed annually. Employs 15 hands. Began in 1880.

LOWELL MARBLE AND GRANITE MONUMENTAL WORKS, Ayer's City, near Union Iron Foundry. Employ 15 men.

LOWELL STEEL WIRE COMPANY, on plant of Woods, Sherwood & Co., Bridge street, foot of Seventh. Manufacture hardened and tempered steel card wire. Employ 12 men.

LYFORD & HULL, manufacturers of Lyford's Extracts of Spices, a remedial agent, and Hull's Veterinary Liniment. Also, make essences, syrups, flavoring extracts, etc. Office, basement Five Cent Savings Bank building, Merrimack, corner John street. Established 1878.

S. G. MACK & COMPANY, Nos. 121 and 123 Market street, manufacturers of galvanized cornices, window caps and brackets, iron fences, iron and tin roofs; also, tin, sheet iron, brass and copper workers. Use 40 tons of galvanized iron and 10 tons of black iron per annum. Employ 18 men.

WILLIAM MANNING, manufacturer of corn cakes, corner of Broadway and School street. During the season of manufacturing one hogshead of molasses per day and a proportionable quantity of corn are used. A patented combination of cocoanut and pop-corn is also manufactured by him. He employs an average of 13 men, but the establishment has a capacity for 30.

MARSHALL & CROSBY, manufacturers of cabinet furniture, side-boards, roll-top desks, book-cases, etc. Shop, No. 267 Middlesex street. Employ 50 men.

MERRIMACK CROQUET COMPANY, Harris' Mills, foot of Pawtucket street, manufacturers of croquet, ten-pins, ring-toss, Indian clubs, base-ball bats, roller skates and rink supplies. Also, fancy wood-turning a specialty. Employ 25 hands.

NEW ENGLAND BUNTING COMPANY, E. S. Hylan, manager. Mill on Davidson street. Employ 30 hands. Run 12 broad and 18 narrow looms. Produce fancy worsteds for dress goods, Turkey red awning stripes, bunting and flags.

A. NOURBOURN, manufacturer of steam, iron and wood-working machinery. Shop, corner of Willie and Cushing streets. Employs 10 men. Established in 1877.

NOVELTY PLASTER WORKS, Elm street, opposite Court House. Established 1864. G. E. Mitchell, proprietor. Manufactures medicinal, porous, rubber, isinglass, blister, mustard, corn, bunion, and surgeons' adhesive plasters of all kinds. Employs 30 hands.

NOVELTY SUSPENDER WORKS, corner of Howard and Hale streets. Harriman Brothers, agents. Manufacture elastic webbing, loom straps and suspenders. Employ 14 hands.

J. G. PEABODY & SONS, Wamesit Mills, manufacturers of hard wood doors and shutters, mostly for New York and Boston market, the business amounting to about \$60,000 per year. Employ from 25 to 30 hands. Established in 1834. Present firm organized in 1873.

WALTER J. PETTINGELL, Dutton street, (West), manufacturer of Pettingell's Metallic Chimney Caps, patented March 14, 1882. Steam chimney caps a specialty. Also, manufactures brick at Salisbury Point, Mass., where 14 men are employed.

PEVEY BROTHERS, iron and brass founders, Walker street. Employ 35 men, and consume annually about 1500 tons of iron.

AMASA PRATT & COMPANY, Wamesit Mills, manufacturers of doors, sashes, blinds and mouldings, and every description of house finish. They consume and sell annually 5,000,000 feet of lumber. Forty men employed. Established in 1855.

F. W. PROCTOR, No. 108 Middlesex street, plumber, and steam, gas and water fitter. Also, manufactures the Flint House Steam Heating Boiler as a specialty. Employs 18 men.

RICE & COMPANY, No. 162 Broadway, between Mt. Vernon and Willie streets, manufacturers of wire cloth, nettings, office railings, coal sifters, bird cages, rat-traps, etc. Employ 30 men.

J. G. ROGERS & COMPANY. Mill foot of Anne street. Run by water 25 or 30 horse power. Grind about 50,000 bushels per annum, mostly corn. Salesroom, Nos. 29, 31 and 33 Market street. Employ 8 men.

CHARLES RUNELS, Congress street, general granite worker. Employs 25 men.

S. C. & G. H. Smith, successors to C. H. Smith, No. 204 Broadway, manufacturers of cap and set screws. Employ 15 men.

SPINDLE CITY DYE WORKS, 168 Broadway, dye and bleach hosiery, yarns and cloth. Employ 10 hands.

A. C. STEVENS, No. 14 Middlesex street, originator and proprietor of Stevens' Sarsaparilla and Stevens' Dandelion Pills. Also, manufacturer of strengthening, porous belladonna, and rheumatic plasters.

B. F. STEVENS, Arch street, manufacturer of Stevens' Pulley Machine and lock-corner box machines. Employs 10 men.

SAMUEL E. & T. STOTT, manufacturers of needle and diamond-pointed wood and leather card clothing-machine wool combs, circles, gills, fallers, hackles, shoddy and waste-pickers, rag-dusters, etc. Whipple's Mills, Crosby street. Employ 35 to 40 hands.

SWAIN TURBINE COMPANY. Office corner of Dutton and Willie streets. Work done by contract. The wheels of the company are well known throughout the country, being used by all our large manufacturing companies.

TAYLOR & BARKER, manufacturing chemists, off Lowell and Andover railroad. Office, No. 3, Boston and Maine Station, Lowell. Manufacture extracts and carmines of indigo, pyroligneous acid, acetate of lime, iron liquor, red liquor, aqua ammonia, etc. All kinds of spirits, liquors, extracts and pastes for dyers' and printers' use. Employ 15 men.

C. I. TAYLOR & COMPANY, Wamesit Mills, manufacturers of all kinds of furniture. Centre tables and parlor writing desks a specialty. Employ 12 men.

WILLIAM H. THOMPSON, successor to John A. Knowles, No. 20 Fletcher street. Employs 20 men in the manufacture of counter and platform scales.

O. H. P. TRASK, proprietor of granite cutting and steam polishing works, School street, on Nashua and Lowell railroad. Employs 10 men. Work mostly monuments and curbing for the western market.

JOHN TRIPP, roll coverer. Established 1853. Shop in yard of Massachusetts Cotton Mills. His customers are several corporations in Lowell and many similar establishments in New England. Employs 12 men.

JOSEPH TURNER, No. 172 Broadway, manufacturer of jack, cotton, sugar, rigger, planking, locomotive, claw jack and large press screws, boiler punches, turn buckles of all sizes, etc. Employs 12 men.

UNION IRON FOUNDRY, W. P. & D. M. Edwards, Theodore Blaisdell and E. E. Clark, proprietors. Works at Ayer's City, off Lincoln street. Consume about 700 tons of iron annually. Employ 25 men.

WAMESIT MACHINE COMPANY, near U. S. Cartridge Company's shop, Whipple's Mills, Thomas McNamara and E. F. Coburn, proprietors. Manufacturers of stationary steam engines, machinists' tools and general work. Employ 8 men.

JOHN WELCH, No. 183 Middlesex street, manufacturer of parlor, library, chamber, hall, store and office work, and dining-room furniture. Also, all kinds of church furniture. Employs 15 men.

WHITE BROTHERS & SONS, foot of Howe street, manufacturers and dealers in organ, piano and fancy leathers, buck, chamois, wool skins, etc. Employ 60 men.

MOSES WHITTIER & SON, manufacturers of yarns and twines. Mill on Stackpole street, containing 3000 spindles. Thirty-five hands are employed, and 4 bales of cotton are consumed per day.

H. H. WILDER & CO., No. 127 Central street, tin and sheet iron work and plumbing. Employ 25 hands.

E. N. WOOD & CO. Mill at lower end of Chambers street, near Bunting Mill. Run by water, 25 horse-power. Grinds corn, rye and oats, from 200 to 300 bushels per day. Salesroom, 47 Market street. Employ 10 men.

A. L. WRIGHT, corner Rock and Fletcher streets, manufacturer of engine lathes. Employs 21 men.

OTHER MANUFACTORIES.

We give herewith the smaller concerns employing fewer than 10 hands :

IRA O. ADAMS, Elevator Building, Western avenue, manufacturer of lounge and chair frames, mostly for local trade. Employs 4 men.

GEORGE F. ALLEN, harnesses and trunks, Nos. 9 and 11 Middle street. Employs 3 men.

G. W. BAGLEY, No. 35 Prescott street, manufacturer of Burrows' Dry Air Refrigerators, doors and window screens. Signs a specialty. Employs 6 men.

MRS. C. E. BAKER, No. 69 Central street, makes hats, caps and furs. Employs 3 hands.

S. BARKER & SON, No. 8 Fletcher street, manufacturers of vats and tanks for tanneries, bleacheries, breweries, dye and chemical works, etc. Employ 3 men.

ROBERT BARRIS, JR., No. 426 Central street. Employs 2 men in making harnesses.

ISRAEL BENT, No. 77 Market street, manufacturer of belting, trunk handles, and pickers, and dealer in card clothing. Employs 3 hands.

BERGERON & SON, carriage makers, Nos. 14 and 16 Rock street. Employ 2 men.

BOOTT & PINNEY, 64 Dutton street. Employ 4 men, and make 120,000 cigars annually for local trade.

T. M. BOLTON & CO., No. 116 Market street, harness and saddle makers. Employ 5 men.

C. H. BROWN, successor to Dupont & Ames, Mechanics' Mills, Dutton street, manufacturer of brackets and house finish. Also, wood-turning and scroll-sawing. Employs 5 men.

BROWNING, LADD & SPEIRS, plumbing and steam-heating, 137 Middlesex. Established 1885.

E. P. BRYANT, rear of 78 Bridge street, Centralville, manufacturer of light and heavy carriages of all kinds. Employs 7 men.

SAMUEL L. BUTMAN, harnesses, No. 250 Middlesex street. Employs 3 men.

JAMES CALNIN, No. 53 River street, manufacturer of tonic, ginger, root, raspberry, lemon-cream, nectar-cream, Belfast ginger-ale and cream-mead. Employs 4 men, and bottles about 5000 dozens yearly.

FRANK CALVERT, No. 100 Jackson street, manufacturer and repairer of machinery. Employs 3 to 6 men.

C. E. CARTER, corner of Branch and Smith streets, manufacturer of Allen's Root Beer Extract, Carter's Blood Syrup, Carter's Toothache Drops, and Electric Nerve Pencils.

W. H. CARTER, wool scourer, Congress street, on Hale's Brook. Mr. Carter employs 6 men, and handles 5000 pounds of wool per day.

M. F. CLARK, carriage painter, Andover, corner of Pleasant street,

WILLIAM CLEWORTH & SONS, No. 92 Middle street, manufacturer of weavers' reeds. Employ 4 men.

A. H. CLUER, harness maker, No. 78 Bridge street. Employs 2 men.

R. J. COLCORD, manufacturer of refrigerators and furniture, Wamesit Mills. Employs 6 men.

SAMUEL G. COOPER, No. 120 Central street, manufacturer of copper stamps and stencils for cotton and woollen mills, bleacheries, hosieries, etc.

CREVIER, DUPONT & COTE, corner of Cross and Willie streets, carriage manufacturers. Employ 5 men.

F. G. CUMMINGS, Wamesit Mills, manufacturers of plain and fancy boxes. Lock-cover filling boxes, cabs, etc., a specialty. Employs 5 men.

A. DAVIS, No. 265 Middlesex street, manufacturer of magneto-electric machines and wood-working machinery. Employs 4 men.

E. T. DAVIS & COMPANY (successors to F. L. Gallison), No. 62 Market street, manufacturers of all kinds of brass and composition castings. Employ 4 men.

L. A. DERBY & COMPANY, No. 10 Prescott street, electric watch clocks and time detectors, electric gas lighting, electric bells, burglar alarms, speaking tubes, annunciators for hotels and private residences, etc. Private telephone lines built.

JAMES C. DONOVAN, No. 44 Market street. Employs 2 men.

ALFRED DRAKE, Whipple's Mills, manufacturer of needle-pointed card clothing in wood, for flax, jute and tow. Also, jute filleting, hackle, gill, card and comb pins, shoddy pickers, etc., of every description. Employs 4 hands.

HARLOW DUSTON, Nos. 4 and 5 Prescott block, Merrimack street, tin and sheet iron worker. Employs 3 men.

DYER & PATTERSON, harness makers, No. 117 Middle street.

HENRY EDWARDS, No. 62 Market street, manufacturer of machine brushes. Employs 3 men.

W. R. EMERSON, 155 Central street, cigar manufacturer. Employs 3 men.

JOHN GILCHRIST, No. 17 Middle street, plumber, steam, gas and water fitter. Employs 6 men.

W. B. GLOVER, stencil cutter and engraver, No. 61½ Central street.

CHARLES GRIFFIN, Mechanics' Mills, Dutton street, manufacturer of house finishings. Mill columns and wooden pumps a specialty.

ARISTON GROVER, steel letter, stamp and stencil cutter, No. 218 Middlesex street.

D. P. HALLOWELL, carriage ironing, Andover, corner Pleasant street.

C. F. HATCH & COMPANY, 36 Church street. Employ from 50 to 70 girls, and 6 men, producing about 200,000 boxes per month.

W. E. HATCH, Cushing street, near Mechanics' Mills, wood novelties. Employs 4 hands.

L. W. HAWKES & Co., furniture and mattress makers, No. 25 Prescott street. Upholstering and repairing all kinds of furniture. Hair mattresses made over and put in good condition. Employ 7 hands.

G. F. HILL, Nos. 192 and 194 Middlesex street, manufactures carriages, and does general repair work. Employs 8 men.

JONATHAN HOLT, Tanner street, manufacturer of hard glue. Employs 4 men, and runs only during the cooler part of the year.

GEORGE W. HUNTOON, No. 62 Market street, machinist and manufacturer of roller skates. Employs 5 men.

A. KEDDIE, No. 92 Middle street, pattern and model maker. Employs 3 men.

PATRICK KELLEY, No. 27 Middle street, manufacturer of soda, ginger ale, root beer, lemon cream and mineral water. Employs 5 men. Bottled about 6000 dozens the past season.

D. S. KIMBALL, 62 Fletcher street, manufacturer of furniture.

L. S. KIMBALL, No. 27 Shattuck street, roll coverer and manufacturer of leather loom pickers and card-leather belting. Employs 6 men.

W. H. KIMBALL, successor to Gordon & Kimball, Dutton street, opposite Wamesit Mills, manufacturer of post-rails, balusters and stairs. Employs 2 men.

WILLIAM KNOWLES & COMPANY, 78 Cushing street, manufacturers of hand-cut files and rasps of every description. Employ 3 men.

LOWELL MARBLE WORKS, corner of Gorham and Olive streets. T. E. Moran, proprietor. Manufacturer of marble and granite monuments and tablets, and all kinds of cemetery work. Employs 8 men. Also, quarry at North Acton, Mass.

LOWELL RUBBER TYPE COMPANY, room 4, Nesmith block, manufacturers of rubber stamps, etc.

JAMES MAHAN, marble and granite worker, Gorham street, opposite Fair Grounds. Employs 8 men, and his work is mostly confined to monumental and other cemetery work.

MANAHAN MANUFACTURING COMPANY, 195 Middlesex street. Established in 1883. Manufacture Manahan's Patent Ladder Hooks and the Manahan Combination Ink Stand.

MARTIN & LANGLEY, Nos. 174 and 176 Middlesex street, manufacturers of tin and sheet iron work. Employ 5 men.

ERNEST MAYO, 302 Merrimack street, employs 2 men in making candy.

JOHN McASKIE, No. 13 Middle street, awning and tent manufacturer. Horse covers made, ropes and falls spliced and fitted.

McKINNON & WARREN, corner of Rock and Willie streets, carriage manufacturers. Employ 3 men.

WILLIAM McLARNEY & COMPANY, No. 213 Middlesex street, tin, sheet iron and copper work. Also, piping and plumbing. Employ 5 men.

MRS. MICHAEL MEANEY, manufacturer of awnings, tents, horse and wagon covers, etc. Store, No. 45 Dutton street. Factory, 127 Market street.

D. W. MELLE, steam and gas fitter, 78 Dutton street. Employs 5 men.

M. O'FLAHAVAN & Co., No. 81 Market street, tin, sheet iron and copper workers and plumbers. Employ 6 men.

PAGE & NUNN, 46 Merrimack street, manufacturers of cake, ice-cream and confectionery. Employ 4 men.

WILLIAM PARR, Perham's building, Dutton street, manufacturer of worsted aprons, leather belting, lace-leather, etc. Employs 3 men.

PARSONS & MEALEY, No. 9 Fletcher street, copper stamp, stencil and block cutters for cotton, woollen, and hosiery mills, bleacheries, etc. (Formerly Wm. Parsons—established in 1845). Employ 7 hands.

S. C. PATRICK, cigar manufacturer, 15 Market street. Employs 2 men.

PERKINS & WEBSTER, Western avenue, near Thorndike street. Employ 3 men.

WILLIAM ROBINSON, No. 9 Fletcher street, manufacturer of worsted and belting machinery. Employs 6 hands.

CASPAR RONSDORF, job dyer and bleacher in cotton and woollen yarns, rear of Burnham & Moran's Lumber Yard, School street. Employ 2 men.

ROSS & PARADIS, carriage manufacturers, No. 214 Thorndike street. Employ 4 men.

JERRY RYAN, No. 3, Middlesex street, tin, sheet iron and copper worker. Also, tin roofing, plumbing and water piping done to order. Employs 5 hands.

EDWIN SANBORN, carriage builder, corner Andover and Pleasant streets.

H. J. SAWYER, No. 200 Broadway, manufacturer of machinery, and general job work. Employs 3 men.

SAWYER & TAYLOR, Nos. 212 and 214 Middlesex street. Employ 5 men.

F. W. SMITH, 47 Merrimack street, employs 2 men making confectionery.

J. M. SPURR, 35 Shattuck street, manufacturer of shirts, shirt bosoms, cuffs, etc. Employs 4 hands.

WILLIAM F. STEVENS, No. 193 Pawtucket street, shell and working-boat builder. Employs 4 men.

J. W. STEWART & COMPANY, No. 85 Bridge street, Centralville, tin, sheet iron and copper workers and plumbers. Employ 3 men.

F. A. STURTEVANT, Western avenue, manufacturer of post-rails, balusters and stairs. Employs 2 men.

THOMAS SUGDEN, Elevator building, Western avenue, manufacturer of press bagging used in process of obtaining cotton seed oil. Five looms are run, and from 100,000 to 125,000 pounds of worsted are used annually. Employs 5 hands.

JOHN SWETT, carriage manufacturer, Arch street. Employs 5 men.

C. A. THORNING, 12 Central street, makes ice cream and confectionery. Employs 3 men.

THE LOWELL WIRE WORKS, manufacturers of every description of white lustral wire ware. Factory, Holt's Mill, Belvidere. Office, No. 3 Central street. W. J. Conghlin, treasurer. Employ 5 men.

THE UNITED STATES AND FOREIGN SALAMANDER FELTING COMPANY. New England Branch, Elevator Building, Western avenue. John Babson, 21 Commercial Wharf, Boston, treasurer. Manufacture the only perfect non-conductor known, used for covering steam boilers, pipes and hot-blast pipes. Employ 2 hands.

JAMES M. TORSEY, manufacturer of coffins and caskets, at Mechanics' Mills. Employs 4 men.

UNION BRASS FOUNDRY, near Kitson's Machine Works, Worthen street. A. L. Smith, proprietor. All kinds of brass and composition castings, babbitt metals, etc. Employ 4 men.

WALLINGFORD & CALLAGHAN, corner Merrimack and Tilden streets, tin, sheet iron and copper workers. Employ 3 men.

GEORGE H. WESTGATE, manufacturer of Key Stone Pain Cure, Bank building, Shattuck street.

WHITING & WESTON, manufacturers of leather belting, worsted aprons, loom-strapping, etc. Coburn's block, Market street. Employ 8 men.

WILLIAM WHITMORE, stencil cutter, room 4, Barristers' hall, Central street.

O. D. WILDER, Elevator building, Western avenue. One run of stones, used principally for grinding corn. Employs 3 men.

N. J. WEIR & COMPANY, No. 51 Market street, tin, sheet iron and copper workers. Employ 4 men.

D. H. WILSON & COMPANY, No. 179 Central street, manufacturers of slasher cylinders, silk and dresser cylinders, color and dye kettles, and all kinds of copper work for mills. Employ 7 men.

W. A. WOODWARD, corner of Rock and Fletcher streets, manufacturer of wood-rim pulleys, self-oiling hangers and bearings. Employs 3 men.

W. A. YASINSKI, cigar manufacturer, 3 Fletcher street. Employs 3 hands.

SAMUEL YOUNG & COMPANY, No. 18 Shattuck street (Savings Bank building), manufacturers of electric alarm clocks for mills, and electric work generally.

VARIOUS BUSINESS.

We give below lists of those in various lines of business on the first of March, which are as complete and carefully arranged as the time at our disposal would allow. We believe no important omissions will be discovered:

Bakers.

Bradt G. J. & D., Whiting street.

Cornock James Mrs., 261 Merrimack.

Desautels F. E., 241 Middlesex and 223 Central.

Desjardins Joseph & Co., 328 Middlesex.

Frappier & Racine, 72 Hall.

Gothard Samuel, 122 Fayette.

Hamilton J. L., 48 River.

Jacobs Daniel, 90 Bridge.

Jodoin Mizael, 23 and 25 Cheever.

Lamothe L. P., Mammoth road.

Lavery Anthony, 100 Suffolk.

Leveillee Stanislaus, 72 Hall.

Morier Etienne, 14 Aiken.

Morris Thomas F., 71 River.

Northam George, 412 Central.

Pearson Baking Co., 275 Central, branch 87 Woodman T. H., 3 Western avenue.
Bridge.

Roberts Henry, 239 Market.
Saunders E. S. Miss, 141 Market.
Savard John, 274 Middlesex.
Severance Freeman T., 275 Central.
Scripture S. A., Branch, cor. School.
Somes Wm. E., 99 East Merrimack.
Vandette Sifrois, rear 15 Aiken.
Vincent Bros., 25 Cheever.

Bands of Music.

American Brass Band, W. H. Valentine, agent, 80 Central.
American Orchestra, W. H. Valentine, agent, 80 Central.
Butterfield's Orchestra, J. S. Wells, leader, 365 Central.
Highland Brass Band, 4 Urban Block.
Lowell Orchestra, H. F. McEvoy, leader, 3 Urban Block.
Owen's Orchestra, W. A. Owen, leader, 39 Central.

Blacksmiths.

Abbott A. H., 360 Middlesex.
Abbott & Sylvester, 388 Middlesex.
Abbott James H., Plain, cor. Fruit.
Averill Orrin E., 87 Middle.
Bailey R. S., Worthen.
Bowman Wm. J., 253 Broadway.
Bergeron Louis & Son, 14 and 16 Rock.
Blackington Daniel, rear 20 Fletcher (machine).
Cahill Bros., 75 Market.
Cahill Owen, 50 Gorham.
Caron John, 16 Smith.
Chamberlin Charles, 3 Western avenue.
Clark Thomas, Rock and Willie.
Crevier, Dupont & Cote, Willie, corner Cross.
Dexter Oral K., 195 Pawtucket.
Dix John F., 383 Middlesex.
Drew John, Varnum avenue.
Fay Thos. F., Suffolk, cor. Liberty square.
Groves James, 50 Salem.
Hallowell D. P., 5 Pleasant.
Leith Ralph, 37 Wall.
Libbey M. V. B., 21 Middle (horse shoer).
Lovejoy Daniel & Son, 1 Cushing, cor. Rock.
Mitten Anthony D., 294 Middlesex.
Monahan Peter, 133 Chapel.
Mosher John S., Whipple's mills.
O'Connor Patrick G., 131 River.
Parsons Absalom, 321 Gorham.
Perkins & Webster, 4 Western avenue.
Ramsdell I. O., 129 Chelmsford.
Reagan Timothy J., Worthen, corner Fletcher.
Rines Amos H., 100 Cushing.
Simpson O. A., 42 West Fourth.
Stacy H. G., rear 50 Fletcher.
Tibbetts H. W., 31 West Third.
Varney John, Mammoth avenue.
Ward Wm. H., Chelmsford, cor. Powell.
Wilson G. W., 220 Thorndike.

Booksellers and Stationers.

Burbank P. P., 316 Merrimack.
Cambridge O. L., 16 Merrimack House block.
Church Henry C. & Son, 74 Merrimack.
Coggeshall F. P., 51 Merrimack.
Colby J. A., 72 Central.
Coughlin & Co., 3 Central.
Emery Daniel, 155 Middlesex.
Jenkins J. Judson, agt., 41 Merrimack.
Marston & Prince, 86 Merrimack.
Merrill Joshua & Son, 78 and 80 Central.
Merrill C. T., 155 Middlesex.
Richards Edwin W., 29 John.
Rexford J. T., 31 Varney.
Stackpole J. A., 85 Central.
Turner George F., 149 Central.
Whitney A., 87 Merrimack.
Worcester W. H., 5 Prescott block.

Boots, Shoes and Rubbers.

Adams Enos H., 124 East Merrimack.
Bailey Allen, 176 Central.
Beaubier A. G., 220 Merrimack.
Boardman L. H., 6 Central.
Boss Louis, 137 Market.
Boulger & McOsker, 30 Central.
Breen James J., 94 Appleton.
Brouillette Philias, 30 Merrimack.
Cornock Edwin, 55 Market.
Cornock James, 18 Andover.
Daggett Milton H., 27 John.
Ferrin & Parker, 96 Central.
Goodwin J. B., 38 Central.
Griffin Joseph W., 13 John.
Hill Edric E., 163 Central.
Holland & Rand, 52 Dutton.
Hoyt Bros., 118 Merrimack.
Huntoon Moses C., 224 Merrimack.
Ingalls Green W. & Co., 44 Merrimack.
Jones Charles W., 207 Central.
Knowles Charles H., 28 Middlesex.
Laravie Francis, 10 Aiken.
Lemay Leon, 314 Merrimack.
Logue Barnabas, 19 Branch.
Lovejoy William H., 119 Middlesex.
Lowell Rubber Co., 61 Central.
Loussier F. X., 69 East Merrimack.
Martel J. C., 10 Merrimack.
Middlesex Shoe Store, 106 Middlesex.
Mitchell Chas. H. & Co., 70 Merrimack.
Mongeau & Lahne, 256 Merrimack.
Morel Joseph, 217 Middlesex.
O'Donnell John, Jr., 19 Branch.
O'Sullivan Brothers, 194 Merrimack.
Parthenais Bros., 308 Merrimack.
Shanley Joseph E., 37 Gorham.
Swan Daniel, 43 Merrimack.
Swan & Smith, 70 Central.
Taylor D. B., 56 Middle.
Tinker Law, 128 Powell.

Whitman I. Watts, 69 Bridge.
 Willoughby J. S., Thorndike, cor. Middlesex.
 Worcester W. Henry, 5 Prescott block.
 Wright Hapgood, Fiske's block, 119 Central
 (wholesale and retail).
 Wright N. M. & Co., 132 Central.

Brokers.

Allen Allston, 51 Central (Western farm loans).
 Bryant D. L., 190 Middlesex street.
 Coburn Charles, 28 Central (insurance), 1865.
 Collins William, 69 Tremont (pawn).
 Cumings George W., 36 Central.
 Eaton Chas. W., 33 Central.
 Elliott Thomas H., 33 Central (real estate and mortgage).
 Fish & Plummer, 48 Central (real estate), 1875.
 Frost Charles H., 78 Central (pawn).
 Griggs George S., 9 River (pawn).
 Huntoon & Perkins, 183 Middlesex.
 Kidder Charles F., Wyman's exchange, room 9 (stock).
 Knapp C. L. & Co., 33 Central.
 Lombard Investment Co., 13 Barristers' hall.
 Moore J. M., 20 Central.
 Sanborn Augustus C., 111 E. Merrimack.
 Shepard Charles, 28 Central (stock).
 Shepard, Russell & Co., 28 Central (mortgage and real estate).
 Shepard William, 28 Central (stock, etc.).

Builders and Carpenters.

Adams & Robinson, 30 Middle.
 Adams J. J., 97 Bridge.
 Alexander M. F., 285 Merrimack.
 Bagley G. W., 35 Prescott.
 Baker E. G., 56 Fletcher.
 Bartlett Stephen, 273 Fletcher.
 Bassett Gershom C., 27 Blossom.
 Bassett Jesse N., Whipple, cor. Bassett.
 Bennett J. C., 61 Dutton.
 Bennett J. W. & Co., 292 Middlesex.
 Burr C. H., 20 Beach, Centralville.
 Buxton Harvey E., Powell, cor. C.
 Carl Francis, 271 Westford.
 Carlton O. C., 22 Third.
 Carroll H. L., 19 Middle.
 Collins A. D., 29 West Third.
 Donaldson Charles H., 91 Howard.
 Dow John D., 224 Thorndike.
 Farnham George B., Mt. Vernon, near Broadway.
 Fifield William A., 24 Varney.
 Fowler George L., 248 Broadway.
 Fuller W. T., 7 Walker.
 Gilman James B., 45 Nineteenth.
 Glidden Seth, Mammoth road.
 Golden Peter A., 10 Coburn.
 Griffin Charles, Mechanics' Mills.
 Griffin Frank, Dutton, near Mechanics' Mills.
 Hadley J. M., 64 Lincoln.

Ham L. R., Riverside, Pawtucketville.
 Hamblet Gilbert, 17½ Middle.
 Harmon M. M., 10 Hildreth.
 Hood A. K., 69 Rock, near Willie.
 Howe A. J., 41 Chestnut.
 Howe H. C. & J. F., Wamesit Steam Mills.
 Howe William G., 27 Myrtle.
 Hubbard John D., 2 Cady.
 Jacobs Aaron, 31 Congress.
 Jackson Geo. W., 386 Middlesex.
 Ladd & Conant, 37 Mt. Vernon.
 McLean E. E., Lilley avenue.
 Miller Fred C., 345 Westford.
 Morrill J. E., Loring, cor. Branch.
 Myron John, Spring court.
 Page Jonathan & Co., rear 87 Charles.
 Parow E. T., rear 117 Market.
 Pillsbury J. P., 7 Prescott.
 Proctor S. N., rear 199 Central.
 Quinn Patrick B., 14 Cady.
 Sanborn Edward P., 50 Howard.
 Simpson O. A., 42 West Fourth.
 Staples Bros., School, near gas works.
 Stedman John G. & Geo. R., 181 Wilder.
 Sylvester Geo. B., 3 Mt. Washington.
 Taylor F. A., 92 Bartlett.
 Tyler Albert M., 2 Tyler.
 Varnum C. F., Mechanics' Mills, Dutton.
 Whittet & McDonald, 9 Pleasant.
 Wiggin William H., Willie, cor. Franklin.
 Wilson F. S. & F. T., 80 Dover.
 Wright A. D., 50 East Merrimack.

Cigar Dealers and Manufacturers.

Barker Charles, 172 Merrimack.
 Barker William, 109 Worthen.
 Boot & Pinney, 64 Dutton.
 Bresnahan P. H., 61 Crosby.
 Calderwood William, 33 Merrimack.
 Cheney Charles W., 23 Central.
 Connors Dennis, 62 Market.
 Crocker F. W., 151 Middlesex.
 Davlin Frank H., 24 Gorham.
 Emerson James, 145 Central.
 Emerson William R., 155 Central.
 Estes G. Frank, 130 Middlesex.
 Farley George, 177 Central.
 Flood & Co., 49 Moody.
 Hayes William H. I., 290 Merrimack, wholesale and retail.
 Lynch, Patrick, 43 and 45 Market.
 Maguire Michael F., 24 Kinsmau.
 Marshall Avery, 190½ Gorham.
 Marshall John G., 41½ East Merrimack.
 Mort James W., 83 Central.
 Patrick Samuel C., 15 Market.
 Quirbach Jacob, 76 Gorham.
 Teague P., 206 and 208 Merrimack.
 Thomas Robert J., 137 Adams.
 Leary Timothy, Navy Yard, Dracut.
 Yasinski William A., 3 Fletcher.

Carriage Manufacturers.

Bernard J. S., 14 Rock.
 Bryant Earl P., 23 West Third.
 Convers George H., 173 Central.
 Dickey Woodbury M., 13 Varnum ave., Pawtucketville.
 Douglas Edward O., 388 Middlesex.
 Fay Bros., 16 and 17 Shattuck, and 100 Middle.
 Green Amos, Fletcher, cor. Franklin.
 Hill C. H. & T. W., 76 Bridge.
 Hill G. F., 192 and 194 Middlesex.
 McKinnon Daniel, Willie, cor. Rock.
 Ranger E. H., 4 Suffolk.
 Sanborn, Edwin, 3 Pleasant.
 Sawyer Carriage Co., Tanner and Lincoln.
 Swett John H., 9 Arch.
 Swett Wm. L., Pawtucket, n. old canal.

Carriage Repositories.

Conant J. E. & Co., 182 to 186 Central.
 Fay Bros., 16 and 17 Shattuck, and 100 Middle.
 Ferrin H. K., 821 Middlesex.

Clothing.

Boston & Lowell Clothing Co., Central, cor. Prescott. Burbank & Gannon, proprietors.
 Chalifoux Joseph L., 15 and 17 Central.
 Huse Hiram E., 1 Canal block.
 Huse H. G. Miss, Canal block, 69 Central (boys).
 Kimball C. H., 2 Canal block.
 Kurtz Henrietta, 123 Middlesex.
 Lederer B., 74 Central.
 Lowell One Price Clothing Co., 36 to 42 Merrimack.
 MacKenzie J. R. & K. J., 44 Central.
 McGonagle S., 15 Merrimack.
 Patnaud Existe, 316 Merrimack.
 Putnam & Son, 96 to 102 Central.
 Talbot & Co., 88 Central.

Coal and Wood.

Adams James, 46 Willie.
 Adams L. S., 20 Central, and Meadowcroft, near railroad.
 Baird Isaac, 4 Aiken.
 Blakeslee & Common, 11 Kirk.
 Blodgett Charles A., 102 Jackson.
 Brennan John T., 93 Jackson.
 Brown Charles L., 244 Central.
 Buckley Michael, Keene, cor. Gorham.
 Campbell George H., 94 Ford.
 Cawley Edward, Boylston.
 Dow A. F., 87 Church.
 Duren Edwin, 385 Middlesex.
 Gasmin A., 135 Chelmsford.
 Godin Edouard, 328 Merrimack.
 Griffin Warren T., 145 Worthen.
 Henderson S. H. & Son, 289 Merrimack.
 Horne D. W. & Son, Hale cor. Howard, and 35 Merrimack.
 Hunt & Miller, rear 62 Tremont.
 Kittredge W., 38 Middle.
 Laporte Damas H., Aiken, cor. Hall.

Leblanc Bros., 35 Davidson.
 Livingston Wm. E., 27 Thorndike and 33 Merrimack.
 Lowell Co-operative Association, 21 E. Merrimack yard Meadowcroft.
 McCann M. J., 101 Charles.
 McDonald J. W., rear 8 Hildreth.
 McDonald Joseph W., rear 8 Hildreth.
 McGlone Hugh, 55 Whipple.
 McKissock & Co., 17 First.
 McNabb Thomas, Mammoth road.
 Mixon Horace, 94 Ford.
 Mollahan Bros., 58 and 408 Gorham.
 Moore Walter T., 77 Central.
 Morse William W., 18 West Pine.
 Murphy Patrick, 204 Lawrence.
 Otis & Miller, 101 Charles.
 Parker Charles H., 69 Appleton, cor. South.
 Parker Charles H., 69 Appleton.
 Parker Elbridge G., Manchester, cor. Gorham.
 Phelps C. R., rear 193 Central.
 Renaud Samuel & Son, 312 Middlesex, yard on Grand, near Middlesex.
 Richardson & Smith, 49 Salem.
 Shorey & Brickett, Fletcher, cor. Western avenue.
 Simpson O. A., 42 West Fourth.
 Smith Jacob R., 188 Broadway.
 Smith Warren P., 174 Broadway.
 Stanley & Co., 63 Moody, corner Tremont.
 Stickney R. W., 95 Bridge.
 Treworgy Everett M., Gorham and Thorndike.
 Warburton Bros., 263 River.
 Whited & Co., 29 Merrimack, and foot of Howard.
 Wiggin S. W., 40 Paige and H Hurd.
 Willett A., 31 Salem.
 Wilson F. T., 50 Fletcher.

Confectionery, Fruit, Etc.

Barry G. O., 279 Merrimack.
 Bonaccrosi L., 309 Middlesex.
 Burbank P. P., 316 Merrimack.
 Cristofani J., 185 Central.
 Cole Mary M., 9 John.
 Dodge Newton C., 243 Middlesex.
 Emery Daniel, 163 Middlesex.
 Erdis Hugh W., 3 Merrimack.
 Frost I. N., 129 Market.
 Ingham & Co., 3 and 4 Prescott block.
 John Nicholas, 118 Middlesex.
 Killpartrick Bros., 176 Merrimack.
 Legro Eben, 135 Middlesex.
 Marine Peter, 40 Middlesex.
 Merrill Chas. S., 145 Middlesex.
 Morothe V., 107½ East Merrimack.
 O'Connor J., Dutton, cor. Fletcher.
 Patten George W., 53 Central.
 Pearson J. & J. M., 1 to 3 Bank block, Shattuck.
 Reed David A., 18 Second.
 Richardson Almon L., 69 Tilden (confectionery, wholesale).
 Sherman W. Irving, 53 Central.
 Smith F. W., 47 Merrimack.

Stackpole J. A., 85 Central.

Statto Peter, 81 Gorham.

Turner George F., 149 Central.

Dry and Fancy Goods.

Abels & Son, 3 Welles block.

Ashworth James Mrs., 17 Market.

Baker Josie, 115 Central.

Bixby Charles H., 54 Merrimack.

Blake Clara, 188 Middlesex.

Brown John B., 9 Merrimack House block.

Bulmer Sarah J., 110 Middlesex.

Cassidy James W., 56 Merrimack.

Cook, Taylor & Co., 48 Merrimack, and 121 to 125 Central.

Cutting & Bradt, 8 John.

Dallagher E. M. Miss, 9 East Merrimack.

Derby Jennie H. Mrs. 17 Merrimack House block.

Emery Stillman, 59 Branch.

England J. P. Mrs., Meadowcroft.

Finnegan James, 105 Gorham.

Fisk Charles K., 49 Merrimack.

Folsom Jonathan P. & Co., 44½ Merrimack.

Frye S. E. Mrs., 109 Bridge.

Gray Charles O., 2 Loring.

Grant J. R., 17 Merrimack.

Gregware & Martin, 98 Merrimack.

Guillet J. H., 158 Merrimack.

Hallas Allen, 441 Central.

Herrick E. S. Mrs., 359 Central.

Hicks Joseph, 68 Central (remnants).

Hutchins Elvira R., 133 Central.

Keyes & Tarr, 124 and 126 Merrimack.

Kimball & Co., 93 to 97 Merrimack.

Knowles F. T., 4 Central.

Knox Jane Mrs., 354 Middlesex.

Lamson & Pinder, 37 Merrimack (5 and 10 cent goods).

Leland Thomas, 296 Gorham.

Leonard M. Mrs., 262 Merrimack.

Loiselle, Joseph L., 134 and 138 Merrimack.

Martin Hannah, 7 Austin.

Maynard C. I. W., 78 Merrimack.

McGovern Frances Mrs., 35 John.

Mitchell Frederick G., 110 Merrimack.

Montferrand L. T., 122 Merrimack.

Morrison Geo., 100 and 102 Merrimack.

Morrison George, 43 Tilden.

O'Donnell Ellen J., 280 Merrimack.

O'Donnell & Gilbride, 114 and 116 Merrimack.

Oswald & Co., 35 and 37 Central.

Pollard Arthur G., 80 and 82 Merrimack.

Provencher Mary, 224 Central.

Rand M. A., 194 Central.

Robinson Letitia, 81 Tilden.

Shanley Joseph E., 62 Merrimack.

Skinner A. C., 58 and 60 Merrimack.

Smith Joshua, 195 Central.

Smith Kate Miss, 174 Central.

Stuart, Reid & Co., 66 and 68 Merrimack.

Walsh & Co., 182 Merrimack.

Walsh Emma F., 243 Merrimack.

Expresses.

Lovejoy, Paul Express Co., B. & M. R. R. depot.

N. Y. & Boston Despatch Express Co., offices 35 Merrimack and Northern depot.

Rand & Co., office Hildreth building.

U. S. & Canada express, Merrimack street and Northern depot.

Fish and Oyster Dealers.

Allen Cortes M., 92 Middlesex.

Baker John A., 242 Gorham.

Chaffee Charles S., 7 Suffolk.

French Bros., 233 Central.

Grant Elijah M., 344 Merrimack.

Hart Bros., 46 Salem.

Lancey & Fuller, 260 Chelmsford.

Lawrence J. L., 12 Water.

Parker W. S., New School, corner Mason.

Randlett M. B., 48 Thorndike.

Robinson Charles A., 221 Middlesex.

Shay John L., 73 Bridge.

Spalding & Woodward, 206 Middlesex.

Stone Reuben E., 56 Moody.

Sullivan Wm. H., 326 Merrimack.

Whitman Bros., 27 East Merrimack.

Florists.

Loomis M. C., 22 Oliver.

Newman Edwin, Foster street.

Oliver John, 160 Pawtucket.

Patten George W., 53 Central.

Patten & Co., West Fourth.

Sheppard E. & Sons, 224 Fairmount, Belvidere.

Tingley H. C., 176 Merrimack.

Whittet Alexander, 77 Central, and 25 Hanover avenue.

Flour and Grain.

Cover J. B. & Co., 31 and 33 Shattuck.

Foye Wm. P., 60 Middle.

Miller Joseph & Co., 133 Market.

O'Heir Albert E., 222 Middlesex.

Puffer Asahel D., Dutton, near Mechanics' Mills.

Rogers John G. & Co., 29 to 33 Market.

Wilder O. D., Elevator building, Western avenue.

Wood E. N. & Co., 47 Market.

Furniture Dealers.

Adams & Co., Appleton block, Central.

Beede Freedom D., 137 Middlesex.

Benner Brothers, 138 and 140 Central.

Berry John E., 39 Market.

Bradley W. T., 23 Market.

Carter John N., 223 Middlesex.

Cooper James W., 264 Central.

Duprez E. H., 96 and 98 Suffolk.

Eaton A. & Son, 13 Middle.

Gookin Brothers, 19 and 21 Prescott.

Harmon & Young, 264 Merrimack.

Hawkes L. W., 25 Prescott.

Kimball Daniel S., 62 Fletcher.

Leinhas William E., 223 Middlesex.

Lenfest Leroy, 39 Prescott.

Nichols Alfred, 44 Middlesex.
Olfutt & Whitaker, 19 and 21 Market.
Puffer James F. & Son, 9 to 13 Market.
Sherman & Manning, 3 Prescott.
Staples H. P., 29 Shattuck.

Grocers.

Allen Bros., 1 Prescott block
Arey William H., 283 Chelmsford
Ashworth Joseph H., 58 Chambers
Barney & Co., 197 Middlesex
Barry Edward, 182 Market
Barry Thomas, 50 Dummer
Benson Daniel, 70 Lawrence
Bent Charles, 112 Appleton
Boddy Thomas W., 113 River
Booth John J., 22 Charles
Boyle James, 279 Middlesex
Boyle Michael, 128 River
Boynton & Page, 255 Merrimack
Bresnahan P. H., 61 Crosby
Brown & Morgan, 12 Market
Brunelle Louis, 77 Tilden
Buckle F. H., 210 Central
Burke John, 27 River
Burns David, 11 Davidson
Buttrick & Co., 20 Market (wholesale and re-
tail)
Byrne John F., 69 Charles
Cady Harry F., 259 Central
Callahan Charles H., 13 River
Callahan John F., 81 and 83 River
Carmichael James, 48 Whipple
Cassidy Peter, 125 Chapel
Cheney Chas. W., 23 Central (fancy groceries)
Church Brothers, 216 Merrimack
Churchill Ludlow D., 319 Merrimack
Churchill S. W., 82 Middlesex
Clark Michael C., 19 Davidson
Clark Oliver G., 18 Race
Cleary William F., 44 Gorham
Coburn Clarence G., Pawtucket square
Coffey Brothers, 78 and 80 Suffolk
Commerford C. P., 33 East Merrimack
Connors Michael Mrs., 61 Suffolk
Conroy Patrick, 49 Wamesit
Corr P. J., 19 Crosby
Coughlan Jeremiah, 87 Lawrence
Coughlin Timothy Mrs., 222 Market
Coulson Samuel, 54 Gorham
Courtney John & Sons, 84 Suffolk
Courtney William, 64 River
Crane Bridget, 41 Charles
Crowe Patrick, 192 Gorham
Cryan Brothers, 189 Lawrence
Curtin David, 10 Winter
Dacey John, 64 Fayette
Deming Charles H., 33 Gorham
Dempsey Patrick & Co., 165 Market
Denning Levi, 51 Tilden
Derbyshire A. W. & Co., 5 Prescott and 139
Lawrence

Devine John, 90 Church
Devine Mary, 173 Lawrence
Dexter Hollis F. Mrs., Chelmsford, cor. Grand
Doherty John, 61 Middle
Donovan Brothers, 140 Market
Donovan & Co., 266 Central
Doolin & Gilbride, 406 Central
Duffy Michael C. Mrs., 191 Market
Duggan P. & Sons, 8 Howe
Dyer John, 8 Dummer
Eagan Thomas, 113 Gorham
Ela & Puffer, 36 Middlesex
Fahey John, 370 Central
Faulkner Edward F., 86 Adams
Finnegan James, 105 Gorham
Fitzgerald William T., 195 Market
Flint Albert A., 14 Branch
Flynn Joseph, 76 Gorham
Frappier & Racine, 72 Hall
Fuller & Clark, 75 East Merrimack
Gallagher Charles S., 44 River
Gaudette Brothers, 235 Middlesex
Gaudette Olivier, 2 Tucker
Gibson Brothers, 8 Bridge, cor. Paige
Gilday & Sheehan, 4 Cabot
Gildee John, 229 Gorham
Gill Francis C., 180 Market
Gookin Patrick, 54 Dutton
Gorman Thomas Mrs., 107 Gorham
Goudreau William J., 88 Adams
Granfield John, 424 Central
Grant Elijah M., 344 Merrimack
Gray Bridget Mrs., 47 Whipple
Gray James, 46 North
Gregoire Salomon, 99 Moody
Gregory James & Son, Powell, cor. B
Greenwood Brothers, 217 and 219 Lawrence
Guertin Rose, 21 Aiken
Hale B. F., 187 Middlesex
Hall Albert P., 40 Andover
Hanley William H., 18 Abbott
Harrington George W., 36 Winter
Hartwell & Co., 251 Merrimack
Hebert S. P., 11 Adams
Hill Albert, 63 Whipple
Hoyle John, 57 Tilden
Hughes William J., 24 Salem
Hurd G. W., 12 Andover
Irwin J. M., 192 Market
Kavanagh John, 165 River
Kelley Edward, 47 Gorham
Kelley Patrick, 7 Davidson
Kelty James F., 151 Market
Kennedy Mary, 22 Adams
Kenney Frank, 57 Salem
Keyes Patrick & Son, 215 Market
Kilbride Patrick, 52 River
Lanard Phillis, 47 Salem
Landry Joseph, 16½ Race
Laughton & Sullivan, Merrimack, cor. Prescott
Leary Jeremiah, 7 Dummer

- Leblanc Alfred, 31 to 35 Davidson
 Leighton G., 102 Coburn
 Leith William H., 238 Lawrence
 Litchfield William F., 26 Andover
 Loiselle Joseph, 19 Aiken
 Lombard James A., 235 Merrimack
 Lowell Co-operative Association, 21 East Merrimack
 Lynch Philip, 44 Whipple
 Lyons & Burns, 48 Fayette
 Mackenzie Angus, Tanner, cor. Lincoln
 Manning Patrick, 133 Adams
 Martin Edward, 22 North
 McAloon William, 73 and 75 Gorham
 McCarty Thomas, 95 Gorham
 McCarty William Mrs., 251 Market
 McCormick Bridget, 20 Davidson
 McCluskey John, 77 River
 McDonald Ann, 17 River
 McDonald Brothers, 9 Adams
 McGrath Patrick, 23 Davidson
 McKinnon Brothers, 138 Market
 McLaughlin William, 79 Tilden
 McManus Catherine Mrs., 28 Davidson
 McMonagle Brothers, 105 Bridge
 McQuade E. A., 89 Middle
 McQuade Patrick, 73 Kinsman
 McSorley Alexander, 88 Middle
 Mehan Brothers, 2 Water
 Mellen P. F., 100 Fayette
 Miller J. B. & Co., 19 Aiken
 Miller Brothers, 103 Bridge, corner Third
 Mooney Thomas C., 16 Water
 Moore P. H., Lincoln, corner Main
 Morand Louis, Aiken
 Morrier E., 14 Aiken
 Morris Francis O., 67 Broadway
 Morrison John, 162 Gorham
 Morrison & Hart, 66 Broadway
 Mulcahy Thomas E., 39 Adams
 Munn F. D. & Son, 12 John
 Murphy A. E. Mrs., 1 Agawam
 Murphy Daniel, 43 Suffolk
 Murphy Edward, 100 Fletcher
 Murphy James, 213 Broadway
 Murphy Michael, 240 Gorham
 Murphy Neal, 57 West Third
 Murphy Patrick, 206 Lawrence
 Nichols & Fletcher, 168 and 170 Central
 Nolan John, 362 Central
 O'Connell Daniel, 26 Cross
 O'Donnell C. H., 27 Chapel
 O'Donnell Thomas & Son, 63 Whipple
 O'Dwyer J. J., 225 Broadway
 O'Leary C., 208 Market
 O'Meara Martin, 13 Whipple
 O'Meara Patrick, 87 Fayette
 Paradis J. Wilfred & Co., 340 Merrimack
 Parker Fred H., 241 and 243 Thorndike
 Pearson J. & J. M., 20 Shattuck
 Prevost Napoleon, 2 Aiken
 Prescott & Luther, 261 Broadway
 Proctor & Mellstrom, Gorham, corner Lundberg
 Queenan P. F., 167 Lawrence
 Quinn John P., 11 Salem
 Quirk William, 23 Salem
 Ranlett Orrin B., 69 Dutton
 Renaud S., Jr., 312 Middlesex
 Richardson Increase S., 55 Hildreth
 Richardson J. B. & Sons, 1 Liberty square, corner Fletcher
 Robinson Anthony, 82 Church
 Robinson Charles F., 251 Middlesex
 Roche Thomas F., 67 Fayette
 Rowland C. T., 305 Broadway
 Roy Joseph, 1 Adams block, Adams
 Russell Cyrus K. & Son, 281 Merrimack
 Ryan J. E., 241 Gorham
 Savage Bros., 162 Market
 Sexton John, 222 Lawrence
 Shanahan Cornelius, 81 Adams
 Sheldon & Pearson, 335 Merrimack
 Shelvey Michael, 165 River
 Shorey C. E. & Co., 84 Middlesex
 Slater Joseph F., 210 Westford
 Slatery Bridget, 53 Gorham
 Smart & Frost, Smith, corner Liberty
 Smith J. V., 124 Middlesex
 Somerset James S., 62 Tremont
 Spencer Brothers, 274 Lincoln
 Stickney & Spofford, 81 Bridge
 Stiles & Co., 225 Central
 Stoughton Eugene E., 123 Smith
 Swift John, 62 Suffolk
 Taylor Martin A., 117 East Merrimack
 Tenney T. S., 4 Garnet
 Thellen John, 116 Suffolk
 Thomas Robert J., 137 Adams
 Thompson A. G., 117 East Merrimack
 Tighe Matthew, 22 Lewis
 Tolman J. C., 366 and 368 Merrimack
 Traversy Noel, 204 Middlesex
 Vevers Miles, 153 Lawrence
 Vigeant Brothers, 180 Adams
 Vincent Brothers, 312 Merrimack
 Warburton Brothers, 263 River
 Washburn Charles D., West Sixth, corner Jewett
 Watson Peter, 82 Gorham
 Welch Joseph R., Chelmsford, corner Plain
 Wheeler Albert & Co., 93 Tilden
 Whited D., 45 Branch
 Whittemore Isaac W., 129½ East Merrimack
 Whittemore I. B., 261 Broadway
 Whitty John, 56 Market
 Wills Lester L., 48 Race
 Wood F. H., Navy Yard, Dracut
 Wood & Locke, 24 Middlesex
 Worthley D. E., 17 John
 Wood Luther S., 205 Central
 Young Edwin F., 80 Broadway

St. More A., 172 Middlesex.

Hardware.

Adams Charles E., 228 Middlesex.

Bennett J. C., 61 Dutton.

Boutwell Bros. & Co., 9, 11 and 13 Shattuck (heavy).

Burch, Fenton & Co., 331 Merrimack.

Shattuck Horace B., 34 Central and 14 Prescott.

Taylor Frederick & Co., 166 and 168 Merrimack.

Hats, Caps, Furs, etc.

Anderson J. S., 156 Merrimack.

Brazer William P. & Co., 47 Central.

Driver Thomas, 170 Merrimack, Wentworth's block, room 11.

Hanson M. J., 45 Central.

Hotels.

American House, Frank E. Shaw, 86 Central.

Arlin House, John F. Arlin, 909 Middlesex.

Exchange Coffee House, Thomas Hirst, 112 Market.

Forest House, Oscar Brown, Varnum avenue, near Tyngsboro' line.

Franklin House, Mrs. J. E. Leavitt, 205 and 207 Middlesex.

Gallagher House, Robert Gallagher, 8 and 10 William.

Globe House, John Cusack, 386 Gorham.

Harris Hotel, F. H. Harris, 13 Central.

Hotel Belmont, E. C. Hitchins, 55 East Merrimack.

Lovejoy House, Mrs. E. A. Ladd, 113 Merrimack.

Merrimack House, A. V. Partridge, Merrimack, cor. Dutton.

Noyes House, John F. Noyes, 153 Central.

St. Charles Hotel, W. D. Quimby, 171 to 177 Middlesex.

St. James Hotel, L. P. Robbins, 231 Middlesex.

Tremont House, Patrick Lannan, 278 Merrimack.

Washington Hotel, C. H. Duprez, Central, cor. Church.

Waverley House, A. J. Derby, 14 and 16 Market.

Insurance Agents.

Abbott Edward T., 40 Central.

Cardell E. L. & Co., 36 Central.

Church Henry C. & Son, 74 Merrimack (fire, life and accident).

Coburn Charles, 28 Central.

Coburn G. W. & Son, 41 Merrimack.

Cook S. W., 11 Post Office Building.

D'Evelyn John S., 48 Central.

Kilgore J. M., 4 Wyman's Exch. (life.)

Lee Thomas C., 51 Central.

Marr H. E. & Co., 88 Merrimack.

Merrill Frank M., 78 and 80 Central.

N. Y. Life Insurance Co., S. W. Cook, agt., 11 Post Office Building.

Quinn Samuel, 48 Central.

Sherman F. W., 1 Barristers' Hall.

Speed Charles, 48 Central.

Trueworthy James B., 1 Prescott.

Tueke E. M., 27 Central.

Walker Daniel, 34 Hildreth building.

Wallace D. R., 4 Barristers' Hall.

Wheeler Frank W., 33 Central.

Junk Dealers.

Dodge L. C., 55 Dutton.

Ingham Richard, 65 Dutton.

Martin & Langley, 174 Middlesex, 1848.

Mayo John, 206 Market.

Ready A. L., 65 Dutton.

Riley P. J., 27 Charles.

Ryan John & Co., Fletcher.

Smith P. J., 69 Middle.

Tyrrell Joseph, 70 Gorham.

Jewelry, Watches, Watch Makers.

Appleton George B., 149 Central.

Barnes Thomas, 90 Gorham.

Boutwell W. W. & W. C., 6 Merrimack House block, Dutton street.

Burt Milton, 17 East Merrimack.

Bryant D. L., 190 Middlesex.

Clarke Edwin M., 12 Central.

Clifford Russell S., 20 Shattuck.

Clough Arthur, 6 Prescott Block.

Chin John J., 52½ Central.

Coburn Henry, 83 Central.

Dudley G. W., 85 Bridge.

Durant & Rogers, 25 Central.

Frost C. H., 78 Central.

Grant John D., 229 Merrimack.

Isherwood William, 40 Middlesex.

Johnson Jonathan, 13 Merrimack House block.

Lawrence Alvin, 64 Central.

Lyman A. P., 75 Central.

Murray J. T., 57 Market.

Ordway Henry M., 32 Merrimack.

Raynes Harry, 43 Central.

Sherman M. D. L., 163 Middlesex.

Simard Alfred, 312 Merrimack.

Smith John H., cor. Prescott and Merrimack.

Spaulding D. S., 3 Russell's block.

Wood George H., 89 Central.

Worcester & Co., 5 Central.

Wakefield G. H., 182 Middlesex.

Laundries.

Bent F. A., Middlesex Village.

Johnson Frank A., 225 Middlesex.

Middlesex Steam Laundry, 22 Middlesex.

Merrill's Steam Laundry, 182 Middlesex.

Scripture's Laundry, Frank K. Stearns, prop., 116 Lawrence and 110 Worthen.

Smith Frank, 12 Kirk.

Troy Laundry, S. C. Mussey, prop., 143 Market.

Locksmiths and Bell Hangers.

Barnes Thomas, 79 Gorham

Clough Chase, 6 Prescott block

Curtis Thomas H., 229 Central

Foss L. B., 31 Andover
Haskell Charles T., 227½ Middlesex
Haskell Job H., rear 61½ Central
Hoyle Robert, 99 Worthen
Rice C. N., 26 Gorham
Zimmer Christopher, 16 Middle

Lumber.

Bateman A. P., Mt. Vernon, cor. Rock
Burnham & Moran, 71 School
Howe Bros. & Co., Dutton, north Wamesit Steam
Mills.
Whitney & Tibbetts, Western avenue.

Masons.

Bailey Thomas D., 90 Tilden
Bennett & White, masons and contractors, No. 5
Wellman block, Merrimack street. Wilder
Bennett came to Lowell in 1832 and began work
as a mason. Began business for himself in 1841.
Bissell George W., New School, near Mason
(stone)
Burch John, 331 Merrimack
Butterworth S. D., 113 Middle
Coburn E. W., 94 Bridge
Davis William R., 55 Moore
Estabrook William H., off Mt. Hope
Farrell Edw. H., 81 Howard (plasterer)
Frye Frederick, 18 Shattuck
Gaffney James, 109 Walker
Gilman O. V., 1 Anderson
Hamblet Albert, 48 Tenth
Hartwell Ira, 22 Varney
Kittredge Luther, 2 Butterfield
Kittredge Luther F., 6 Butterfield
Moulton John L., 64 First
Murkland J. H., 17 Alder
Page Edward H., 8 Olive
Page Samuel S., 15 Second avenue
Prescott D. Moody, 185 Central
Powers J. L., rear 107 Salem
Rollins & Sargent, 61½ Central
Sargent Wareham M., 121 Powell
Slavin J., 125 South
Staples Nathaniel T., 16 Butterfield

Milliners.

Abels & Son, 2 Welles block
Arnold A. A., 12 Appleton
Atkins G. F. Mrs., 69 Merrimack
Ayer Ellen M. Mrs., 109 Merrimack
Bagley Mattie A., 107 Merrimack
Bon Marché, 1 Welles' block
Brouillette Merance C. Miss, 270 Merrimack
Brouillette M. C. Mrs., 252 Merrimack
Burbank L. E., 71 Merrimack
Cahill S. H. Miss, 119 Market
Crowley Daniel, 108 Merrimack
Foote F. C. Miss, 79 Merrimack
Foote P. H. Mrs., 99 and 115 Merrimack
Gage Wm. H. Mrs., 28 Kirk
Guillet J. H., 158 Merrimack

Hall Sarah J. Miss, 117 Merrimack
Horne Emma A., 83 Merrimack
Jordan Rose A. Miss, 91 Merrimack
Knowles C. C., 101 Merrimack
Lord H. H., 85 Merrimack
Moore Addie E., 129 Central
Morse S. Warren, 103 Merrimack
Murphy Alice E., 105 Merrimack
O'Heir Georgiana Mrs., 62 Middlesex
Ryer Ellen J., 81 Merrimack
Stewart G. H. Mrs., 294 Merrimack
Sturtevant Lizzie F., 341 Merrimack
Sullivan Minnie A., 65 Charles
Traversy Mary Mrs., 264 Middlesex
Willard B. E. Miss, 246 Merrimack

Paints, Oils, Glass, Paper Hangings, Etc.

Adams C. R., 18 Cabot
Coburn C. B. & Co., 35 Market, also manufactur-
ers' supplies, etc
Fiske & Spalding, 117 Central and 14 Jackson
Kendall J. & Co., 91 and 93 Market
Kittredge A. L., 122 Central

Paper Hangers and Hangings.

Barnes Horace B., 233 Merrimack
Morrill Eugene N., 258 Middlesex
Shea & McOsker, 71 Central
Kittredge & Co., 10 Middle

House, Sign, Carriage and Other Painters.

Abbott J. H. R., 129 Chelmsford
Adams George W., 29 West Pine
Andrews L. M., 37 Market
Bean F. E., 70 Bridge
Bedell B., 18 Middlesex
Bissell Wm. E., 47 East Merrimack
Bugbee Charles H., 298 Middlesex
Chapman A. B. & Co., Plain
Clark Michael F., 7 Pleasant
David P. Jr., 296 Middlesex
Draper Henry J., Fletcher and Franklin
Dole George M., 23 West Third
Graves G. B., 35 Prescott
Hadley Thomas D., Rock and Willie
Hayward J. Clark, 49 Chestnut
Kelley William, 38 West Third
Kirby & Farson, 326 Middlesex
Kuphal Charles H., 30 Andover
Lafamme Louis, 358 Middlesex
Loiselle Alexander, 50 Salem.
Lovejoy Herbert W., 129 Chelmsford
Lynch Peter H., 76 Bridge
Miller Moses W., 80 Willie
Newton Erastus, 14 Rock
Parker C. A., 94 Bridge
Rooks George W., 16 Whipple
Ryden Bros., 15 Lyon
Ross R. H., Mammoth Road
Rock Joseph, 31 West Third
Racicot H. A., Willie and Cross
Spencer & Co., 13 Middle
Welch Michael, 214 Thorndike

Patent Medicines.

Gerrish Thomas G., 126 Pawtucket, cor. School
Goss C. W., 24 Middlesex
Masta J. A., 38 Varney, near School (Pulmonic
Balsam)
Mowe G. S., 104 Middle (Cough Balsam)
Robinson Lydia Mrs., 7 Staples
Towne F. L. F., 211 Central

Photographers.

Duhalne Francois
Emerson M. W., 21 Central
Gagne Edward, 65 Merrimack
Gee J. J., 167 Middlesex
Gilechrist G. C., 92 Merrimack
Hayden Marshall M., 120 Merrimack
Hodges & Squire, 237 Merrimack
Kimball's Photographic Art Studio, W. H. & M.
F. Southard, props., 112 Merrimack
Loupret Napoleon J., 51 Central, cor Market
Marion J. S., 14 Barristers' hall
Morrill Frank L., Central block, 33 Central
Sanborn Nathaniel C., 50 Merrimack
Smith Costillia D., 104 Merrimack
Towle Simon, 92 Merrimack
Warren O. H., 52 to 54 Hildreth building

Pianos and Organs.

Footo Warren S. & Co., 277 Merrimack
Gardner George, 4 Middle
Hedrick George, 36 Central
Stevens A. B., 128 Merrimack
Taylor Louis, Chelmsford, cor. Grand

Piano Tuners.

Footo Irvin A., 277 Merrimack
Gardner H. J., 128 Merrimack
Mireault A., 37 Clark
Owen W. Alonzo, 39 Central
Trumbull Wells F., 1 Edson

Printers, Job.

Bancroft J. Arthur, Jr., 12 Alder
Franklin Printing Office, Sullivan & Alden, props.,
12 Middle
Glidden Herbert F., 12 Middlesex
Hill Charles F., 195 Middlesex
Jenkins J. J., 41 Merrimack
Libby Oliver A., 56 Central
Lowell Card Printing Company, 224 Central

Produce, Provisions, Etc.

[Many of those whose names appear below
also deal in groceries, fish, etc.]

Bean Charles S. & Co., 76 Dutton
Burt Francis E., 42 Middlesex (commission)
Calderwood William, 33 Merrimack
Coggin, Kidder & Co., Fletcher, cor. Dutton
(wholesale)
Dexter Solomon K., 222 Middlesex
Eacott Bros., 77 Bridge
Frost S. H., Mechanics' block

Griffin C. H., 9 Centre
Hall L. W., 3 Gorham
Hancock L. & Son, 125 Market
Ingersoll Henry C., 386 Middlesex
Kendall A. B., 199 Central
Kittredge William N., 332 Central
Lamson Farm Store, 99 Tilden
Libby George F., B. & M. R. R. station
Lovejoy E. & Co., 34 Middlesex (commission)
McCarty Hugh P., 36 Dummer
Morier Etienne, 14 Aiken
Morris Francis O., 67 Broadway
Nichols Gilman N. & E., 77 Market (commission)
Norris Bros., 20 Middle
Peabody Orville W., Dutton, near Mechanics'
Mills
Pike S. P., 7 Prescott
Quirk William, 23 Salem
Smith Edgar L., 63 Cambridge
Wiggin Ervin L., 2 Suffolk

Adams Robert E., 165 Central
Bilodeau Pierre, 60 Hanover
Barnes J. E., 4 East Merrimack
Callahan J. F., 81 and 83 River
Chase Ira M., 253 Merrimack
Cleary Wm. F., 40 Gorham
Cooney John J., 131 Chapel
Corbett Michael, 65 Gorham
Costello Edward, 65 Adams
Courtney William, 64 River
Crown Patrick, 192 Gorham
Cudmore Thomas C., 244 Gorham
Cushman J. M., 105 Worthen
Davis A. L., 7 Suffolk
Downing W. T., 132 Middlesex
Farnan Patrick, 287 Gorham
Farrell Bros., 66 Market
Farrell Henry & Son, 98 Middlesex
Finnick Thomas, 40 Keene
Fletcher Miles J. & Co., 97 Market (wholesale)
Flynn John, 238 Market and 83 Gorham
Foss George F. & Co., 246 Middlesex
Fuller Joseph F., 79 East Merrimack
Gilbert O. J., 147 Central
Gilday & Sheehan, 4 Cabot
Gray Bros., 4 Merrimack
Gray Daniel S., 237 Central
Hadley Harvey, 46 School
Hamilton Joseph F., 21 Branch.
Hardy Joseph, 80 Howard
Hill Albert, 131 Chapel
Holtham G. E. G., 20 Royal
Holtham Joseph, 365 Bridge
Hurd Erastus A., 2 Liberty square
Jewett & Swift, brick block, south side Dutton
(wholesale)
Johnson Brothers, 214 Lawrence
Kelley Brothers, 63 Gorham
Kincaid Richard, Suffolk and Adams.

Keyes Henry F., 142 Broadway
 Killeen P. P., 109 Fayette
 Lowney John E., 162 Gorham
 Martelle Elzard, 119 Hale (sausages)
 McCarty Bros., 240 Market
 McCoy Elmer E., 99 Tilden
 McGregor Fred G., Highland avenue, near West Pine
 McKearney R. Mrs., 11 Charles
 McKenzie Angus, Tanner, corner Lincoln
 Mellen Patrick F., 100 Fayette
 Miles Thomas, 14 Howe
 Nolan John, 362 Central
 Nolan Patrick, 48 Lyon
 O'Dwyer Jeremiah J., 225 Broadway
 Quirk William, 59 Salem
 Regan Patrick 199 Market
 Roark M., 130 Market
 Robinson Alfred A., 199 Middlesex
 Rourke Thomas, 85 Adams
 Saunders Jacob, 141 Appleton
 Sawtelle Selden L., 68 Dutton
 Sheldon & Pearson, 335 Merrimack
 Stiles Milo B., 73 East Merrimack
 Strout & Kingsbury, 95 Bridge
 Thompson Leroy R., 132 Middlesex
 Tyrrell John E., 179 Lawrence
 Warren Charles H., 17 Princeton
 Welch John W., 306 Merrimack
 Whitney George B., 309 Bridge
 Wilder Chas. W., 68 Market (wholesale)
 Wills & Emerson, 2 Music Hall building, Dutton
 Wright Atwill F., 219 Middlesex

Real Estate Agents.

Ames John, 55 Central
 Ames John H., 55 Central
 Bartlett R. E., Stevens and Middlesex
 Elliott Thomas H., 33 Central
 Fish & Plummer, 48 Central, 1875
 Gage James U., 69 Central, Canal block
 Hadley J. A., 34 Hildreth building
 Howe A. J., 32 Central
 Kingsley, Woodward & Harris, 27 Central
 Manahan John F., 195 Middlesex
 Murphy James, 5 Central
 Potter William E. & Son, 20 Central
 Shepard, Russell & Co., 28 Central
 Stevens R. L. & Co., 69 Central
 Varnum L. R. J. & D. H., 107 Bridge
 Wheelock Andrew C., 238 Central
 Whitmore William, 4 Barristers' hall
 Williams Henry L., Central, cor. Prescott

Restaurants.

Britton P. H., 165 Middlesex
 Cumberland Dining Rooms, C. W. Cheney, prop., 21 Central
 Derby A. J., 14 and 16 Market
 Folsom L. A., 16 Merrimack
 Fowler Edwin S., 67 Bridge

Fuller Chas H., 3 to 7 City Hall avenue
 Hale Mary J., Northern depot
 Hall Fannie V., 5 and 7 Lee
 Hilton Mary J., Merrimack street depot
 Holly Tree Inn, Lizzie J. Whittier, 220 Middlesex
 Jacobs Daniel, 90 Bridge
 Kauffier L. E., 121 Middlesex
 Leland John, 10 Hurd
 Lowell Temperance Pioneer Coffee Rooms, 8 Market
 Page C. A., 118 Central
 Page & Nunn, 46 Merrimack
 Phillips C. O., 324 Merrimack
 Putnam, F. E., 8 Merrimack
 Richardson C. W. W., 193 Middlesex
 Sherman Charles H., Middlesex, cor. Gorham
 Swasey John A., 241 Merrimack
 Thorning C. A., 12 Central
 Townsend George W., 167 Central
 Welch George H., 34 Middlesex
 Willis James A., 324 Merrimack
 Wotton Robert C., 100 Middlesex.

Stables.

Arlin J. F., Arlin House, 903 Middlesex (sale and transient)
 Atkins & Harmon, 100 and 102 Worthen
 Brown B. G., 16 Smith
 Campbell George H., 94 Ford
 Clapp Charles, 285 Merrimack (livery, sale and boarding)
 Conant Abel E., 9 Smith
 Conant J. E. & Co., 182 to 186 Central (boarding)
 Davis George E., 434 Central
 Hanson C. H. & Co., 43 Rock (sale)
 Hayes J. F., American House stable, 2 Warren (hack, boarding and sale)
 Hull Henry, 18 Church
 Keyes Charles F., 206 to 210 Middlesex
 Lapham Edward E., 48 Middlesex
 Lapoint Frank, 24 Prescott
 Morse Edward H., Merrimack, cor. Worthen
 Norris G. W., Warren, near Central.
 Noyes J. L. & Son, Cushing, north Fletcher (sale)
 Randlett N. A., 15 Second
 Richardson George, 101 Worthen
 Sprague Charles H., 20 Church
 Taylor George H., 7 Nichols
 Tremont House Stable, rear Tremont House, 278 Merrimack
 Whitney N. F., 254 Middlesex

Tailors.

(See also Clothing.)

Barnes Henry H. & Co., Canal block, 73 Central (also woolens)
 Connor William, 93 East Merrimack
 Dean Henry J., 115 Central
 Delaney Bernard, 145 Central
 Delaney Thomas, 69 Market
 Distin William, 6 Merrimack
 Emerson F. W., 36 Central

Fee Francis, 60 Dutton
 Fee Thomas, 23 Gorham
 Gilman Alfred & Son, over B. & M. R. R. depot
 Gorman John J., 12 Middlesex
 Gregg George V., 50 Central
 Holt Benjamin, 75 Central
 Kallery Thomas, 62 Central
 Mead Patrick, 216 Middlesex
 Meyer Wolff, 111 Middlesex
 Pitman Eben, 33 Central
 Quigley Michael, 88 Gorham
 Rourke Patrick, 284 Merrimack
 Sargent F. W., 14 Middle
 Sheehan Jeremiah, 151 Central
 Smith George, 68 Central
 Tunny Hugh, 217 Central
 Wiggin Dudley, 69 Central

Tea and Coffee Dealers.

Centennial American Tea Co., 34 Merrimack
 China Tea Co., Merrimack, corner Prescott
 Conant Noah, Wannalancit, corner Bowers
 Shanley Joseph E., 43 Dutton
 The Bains Tea Company, 46 Central
 United States Tea Company, 52 Central
 Union Pacific Tea Company, 7 Central

Teamsters and Freight Movers.

Bartlett Orrin, Third avenue
 Bissell George W., New School, near Mason
 Boyle Edward, Market House
 Brady Patrick H., Market House

Brown Benjamin G., 132 Westford
 Couant Abel E., 9 Smith
 Connors Philip, Chelmsford, corner Parker
 Hasey Henry P., 128 Smith
 Heald A. W., 12 Third
 Kelley Thomas, Market House
 Kelley Timothy, Market House
 Knowlton Daniel P., Market House
 Leach James, Market House
 Little Thoman G., Market House
 Mason J. D., 170 Merrimack
 McCarty Daniel, 199 Thorndike
 Merrill Alphonso, Market House
 Mooney Thomas, 14 Wall
 Nixon James, Market House
 Philbrick Caleb, 14 Walker
 Riley Bernard, 9 Fulton
 Roberts William, Market House
 Robey V. E., 138 Stevens
 Salls C. P., 100 Jackson
 Stanley George E., 28 Thorndike
 Thorpe George, 59 Hampshire
 Tompkins Samuel, rear 144 Market

Undertakers.

Brooks James W., 17 Prescott
 Chamberlin C. T., 45 Prescott
 Currier J. B., 23 Prescott, house 16 Ash
 Davey Peter, 73 Market
 Martin F. & Son, 78 Dutton
 McDermott J. H., 32 Gorham
 O'Donnell James F., 122 Market

ADDENDA.

The foregoing lists, of course, do not profess to be in any sense a directory. Our purpose simply was to substantially record the names of the men and women who were engaged in active business in Lowell on the first day of March, 1886. We have not attempted to record each individual under every branch of business in which he may be engaged. In making our lists we have been much indebted to Messrs. Sampson, Murdock & Co., the famous directory publishers of Boston, and to Mr. Pease, their local agent, who has given us access to their advance sheets for the Lowell Directory for 1886. We may have omitted somebody, or mislocated somebody, in the hurry of preparation, but the magnitude of the work and the little available time in which to prepare it must be our apology.

We give below a few persons who are not otherwise provided for, who have paid for their announcements.—[Eds. Bivouac.

Chas. Dutton, M. D., Tyngsborough, member Massachusetts medical society.

Melvin B. Smith, civil engineer and surveyor, Hildreth Building, rooms 26-27. Began business 1878.

Chas. W. Eaton, broker, Central Block, agent for Showalter Mortgage Company, whose 7 per cent. mortgages are a favorite investment for many New England savings banks.

Wheeler & Wilson Manufacturing company, 204 Merrimack street, J. B. Gardiner local manager.

Lovell Manufacturing company, spring-beds, clothes-wringers, etc., 15 East Merrimack street. 1881.

S. H. Weaver & Son, gravel roofers, 250 Middlesex street. 1871.

Daniel Gage first began the ice business in April, 1870. His large ice-houses are located on the south bank of the Merrimack, above Pawtucket Falls. Mr. Gage was engaged in business in Lowell as early as 1854.

French and Puffer are large wholesale and retail dealers in crockery, china and glass ware, at 131 Central street. The firm began business in 1866. But Mr. A. B. French is one of the oldest business men in Lowell, having begun the saloon business in 1836, the year the city was incorporated.

Wm. H. Ward is a large contractor for bridge work, masonry, foundations, etc.; office Northern Depot, Middlesex street.

Taylor Roof Shingling Company, 92 Bartlett street. Began business in 1876. Shingle roofs anywhere within a radius of 10 miles of Lowell.

Sweatt & Davis, granite dealers, Thorndike street, near Lowell Jail. Began business in 1851.

Jeremiah Clark, 106 and 108 Middle street, machinery dealer, came to Lowell in 1834, and commenced present business in 1867.

John P. Mahoney, dealer in second-hand machinery. Office 15 Hildreth Building.

O. A. Richardson, 66 Central street, is headquarters for guns, fishing tackle and the like. The concern was established in 1832.

J. M. Spurr, 35 Shattuck street, makes custom shirts. Began 1870.

Coggin, Kidder & Co., wholesale dealers and commission merchants for the sale of flour and grain, represent a concern established in 1843. Jacob Coggin and Samuel Kidder are the partners.

Arthur H. Benner, 10 Middlesex street, is a custom upholsterer and furniture repairer. He began business March 10, 1885.

E. J. Medina, hair store, 94 Merrimack street, began business in Lowell in 1867.

J. M. Wilson & Co., Thorndike street, carry on a large business in slaughtering sheep and lambs, and in the sale of mutton and other meats. Joseph Wilson began the business in 1835.

George A. Clark has run a successful "5-cent store," 20 Merrimack street, since 1879.

John J. Green should have been enrolled among the dealers in hats, caps and gents' furnishing goods. He is at 114 Central street, 1870.

Robert Simpson, wholesale grocer, dealer in tea, coffee and spices, has an establishment at 414 Central street. He began in 1866.

Walter Coburn, dealer in all kinds of paper stock, yarns and waste. Office and store houses Congress street. Succeeded Lowell Wadding and Paper Co. in 1877. Employs 40 hands.

E. A. & A. T. Smith at 128 Central and 62 Branch street (corner of Coral) carry on the business of concrete paving, doing a large business, and employing, at certain seasons, a large force of men.

Veterinary surgeons should have appeared under "Professional Lowell." The chief ones now in practice are the veteran Dr. Robert Wood, 96 Liberty street, Jesse A. Viles, 14 Coral street, Walter A. Sherman, 184 Central, and James H. Sparks, 2 Worthen.

Lamson Farm Store, 99 Tilden street, was opened in the spring of 1885 for the sale of products of Lamson Farm and Creamery at Windham, N. H. W. S. Lamson, proprietor. Cream, milk, choice butter, lard, salt pork, hams, chickens, all from the farm, are brought by rail to Lowell and distributed daily to customers.

FINANCIAL LOWELL.

The financial interests of Lowell are attended to mainly by seven National Banks, and as many more savings institutions, the facts concerning which we give below:

National Banks.

The business interests of the city sustain seven National Banks, with an aggregate capital of \$2,100,000, as follows:

Old Lowell National Bank, Wyman's Exchange, corner Merrimack and Central streets. Incorporated 1828; converted into a National Bank, 1865. Capital, \$200,000. John Davis, president; Charles M. Williams, cashier; Francis N. Chase, Frederick A. Chase, clerks. Directors, George F. Penniman, Joel Spaulding, Phineas Whiting, Jacob Nichols, Edward T. Rowell, John Davis, William H. Bent, Edward M. Tucke, Artemas B. Woodworth. Discount days, Monday and Thursday.

Railroad National Bank, Mechanics Bank Block, No 128 Merrimack street. Incorporated 1831; converted into a National Bank, 1865. Capital, \$400,000. Jacob Rogers, president; Frank P. Haggett, cashier. Directors, Sewell G. Mack, Charles Hovey, William A. Burke, George Motley, George Ripley, James B. Francis, Jacob Rogers, Frank F. Battles, A. G. Cumnock. Discounts daily. Teller, Edward W. Pease; bookkeeper, Wm. Coggeshall; clerk, Frederick A. Holden.

Appleton National Bank, No. 6 Appleton Block, Central street. Incorporated 1847; converted into a National Bank, 1865. Capital \$300,000. John F. Kimball, president; E. K. Perley, cashier. Directors, William S. Bennett, George Bragdon, Isaac Farrington, D. W. C. Farrington, John F. Kimball, William E. Livingston, Addison Putnam, Henry H. Wilder, Freeman B. Shedd. Discount days, Monday and Thursday. Bookkeeper, F. H. Ela; Clerks, Geo. E. King, A. L. Foster.

Prescott National Bank, No. 28 Central street. Incorporated 1850; converted into a National Bank, 1865. Capital, \$300,000. D. S. Richardson, president; Alonzo A. Coburn, cashier. Directors, D. S. Richardson, Hapgood Wright, N. M. Wright, Charles H. Coburn, John W. Abbot, Thomas Nesmith, Daniel Gage, Geo. F. Richardson, E. W. Hoyt, Chas. A. Stott, W. A. Ingham, Alonzo A. Coburn. Nathan G. Lamson, Bookkeeper; Charles E. Goulding, clerk. Discount days, Monday and Thursday.

Wamesit National Bank, corner Middlesex and Thorndike streets. Incorporated 1853; converted into a National bank, 1865. Capital, \$250,000. Charles Whitney, president; G. Winfield Knowlton, cashier. Directors, Samuel Horn, H. C. Howe, Francis Jewett, Samuel Kidder, Charles Whitney, A. F. Wright, P. P. Perham, W. H. Wiggin, S. B. Hall, James W. Bennett, Prescott C. Gates. Discount days, Tuesday and Friday.

Merchants National Bank, No. 39 Merrimack street. Incorporated 1854; converted into a national bank, 1864. New charter granted July 11, 1884, to extend twenty years. Capital \$400,000. Arthur P. Bonney, president; Walter W. Johnson, cashier. Directors, William H. Anderson, Horace R. Barker, Arthur P. Bonney, William Kittredge, Cyrus H. Latham, Samuel T. Lancaster, Amasa Pratt, Arthur G. Pollard, William Shepard, W. S. Lamson, A. F. Nichols. Teller, J. Edward Gibson; bookkeeper, Henry P. Webber; clerk, Arthur C. Coburn. Discount daily.

First National Bank, No. 42 Central street. Organized 1864. New charter granted February 24, 1883, extending to 1903. Capital, \$250,000. James C. Abbott, president; Walter M. Sawyer, cashier. Directors, James C. Abbott, Gilman Kimball, Albion C. Taylor, Samuel N. Wood, William H. Parker, P. Dempsey, Amos B. French, Ephraim Brown, Joseph S. Brown, Thomas Costello and John Lennon. Discount days, Tuesday and Friday. Teller, John F. Sawyer; bookkeeper, Charles H. Clogston; clerk, Willis P. Eaton.

Savings Banks and Institutions.

Lowell has six Savings Banks, and the returns made to the commissioner in 1885 give the total deposits as \$12,302,879.46, and the number of open accounts as 36,200. The total earnings were \$650,001.58. There was an increase of \$495,135.19 in the total amount deposited, and a decrease of \$20,636.93 in the earnings of 1885 compared with the figures of the preceding year, and an increase of 660 in the number of depositors. The banks are as follows, in the order of their incorporation :

Lowell Institution for Savings, Shattuck street. Incorporated 1829. There is a vacancy in the presidency owing to the death of Dr. John O. Green. George J. Carney, treasurer; Austin K. Chadwick, Albert S. Guild, clerks.

City Institution for Savings, Appleton Bank building, Central street. Incorporated 1837. Dr. Nathan Allen, president; Fred A. Buttrick, treasurer; Frank W. Hurd, Asa W. Flint, Geo. E. Perley, clerks.

Lowell Five Cent Savings Bank, corner Merrimack and John streets. Incorporated 1854. Sewell G. Mack, president; Artemas S. Tyler, treasurer; Charles F. Coburn, clerk.

Mechanics Savings Bank, Nos. 130 and 132 Merrimack street. Incorporated 1861. William A. Burke, president; Charles C. Hutchinson, treasurer; W. F. Hills, treasurer's clerk.

Merrimack River Savings Bank, Wamesit Bank building, corner Middlesex and Thorndike streets. Incorporated 1871. Josiah G. Peabody, president; Nathan G. Lamson, treasurer.

Central Savings Bank, Merchants Bank building, Merrimack street. Incorporated 1871. Oliver H. Moulton, president; Samuel A. Chase, treasurer; Clarence W. Whidden, clerk.

Lowell Co-operative Bank.

This is a somewhat novel savings institution. It was organized April 23, 1885, under chapter 117 of the Public Statutes, and acts in amendment thereto, for the purpose of aiding shareholders to build and pay for homes by monthly payments, and to help them save their earnings. Each share costs a payment of one dollar a month, until its payments, together with the accumulated earnings amount to \$200. The money must then be withdrawn. Besides the interest earnings, there is paid into the treasury by each share-holder a certain fine for delay in paying the dues or interest, which money goes to swell the earnings. There were, March 1, 1083 shares, and \$7900 is loaned on mortgage of real estate owned by the borrowers, who must be share-holders. Loans are placed at each monthly meeting at 6 per cent. with such premium above that as the highest bidder for the loan will pay. The authorized capital of the bank is \$1,000,000. Its officers are: President, A. B. Woodworth; vice president, Stephen R. Kitchen; secretary, George W. Batchelder, room 6, Central Block, Central street; treasurer, George E. Metcalf. Directors, Joseph M. Wilson, Joseph L. Sedgley, Enos O. Kingsley, Charles T. Rowland, E. G. Baker, John Dobson, Thomas Collins, Albert N. Wheeler, James E. White, J. D. Hartwell, George W. Brothers, Edwin S. Bickford, Robert Simpson, William A. Wright, James Murkland; conveyancer, Joseph P. Thompson; attorney, C. S. Lilley.

French Co-operative Bank.

The French Co-operative Bank is on the same plan as the Lowell Co-operative Bank. It was established on the 14th of May, 1885. President, August Jean; secretary, A. Bourbonniere; treasurer, Alfred Leblanc. Office 18 Middle street.

RAILROADS.

Three of the large railroad lines of New England enter Lowell. The Boston and Lowell has its main line running through the city, which gives it its name. The Boston and Maine operates the Lowell and Andover branch under a long lease, and by means of a double track, and frequent trains, forms an important avenue to Boston, as well as a main line to the mountains and "down east." The Old Colony road operates the Framingham and Lowell, of which it is now the owner, and makes a most important freight and passenger connection with New York.

Boston and Lowell.

The Boston and Lowell in addition to its main line to Boston, operates the following branches and lines, grouped in the Southern Division: The Middlesex Central, Stonham Branch, Lowell and Lawrence, Central Massachusetts, Salem and Lowell, Stony Brook, Wilmington Branch (connecting Boston and Lowell with Lowell and Lawrence), and the Nashua and Lowell, including line from Nashua to Keene. The Northern Division includes the Northern railroad and its branches, and the White Mountains Division embraces the Boston, Concord and Montreal railroad and its branches.

The officers of the road are as follows. Directors: T. Jefferson Coolidge, Edwin Morey, Channing Clapp, Frederick E. Clark, Wm. P. Mason, W. H. Haskell. President, Edwin Morey; general superintendent, Charles S. Mellen; division superintendent Southern division, J. F. Crockett; treasurer, C. E. A. Bartlett; local superintendent, Charles E. Paige. The entire milcage operated by the Boston and Lowell is 733. There are 21 trains over the road from Lowell to Boston daily, and 19 trains from Boston to Lowell. The quotations of the stock of the road on the first day of March, were 127.

Boston and Maine.

The Boston and Maine railroad, now consists of two divisions—the Western and Eastern, the Western comprising the trunk line of the Boston and Maine and its connections, and the Eastern division consisting of the old Eastern road and its branches, and leased lines, now controlled by the Boston and Maine management. The branches of Western division are the Medford, Newburyport, Lowell and Andover, Lawrence and Messer's, Georgetown, Amesbury, Dover and Winnesaukee, Great Falls, Kennebunkport and Old Orchard (narrow gauge), making over two hundred and twenty-five miles of the Western division alone. The Eastern division with the Eastern road and its branches, adds as much more to the miles of road under one management.

The Lowell and Andover branch from Lowell to Lowell Junction is 8 miles in length and is double tracked. There are 14 trains to Boston and return each day. The stock of the road was quoted March 1 at 189. The officers of the road are: President, George C. Lord; general manager, J. T. Furber; treasurer, Amos Blanchard; superintendent western division, Wm. Merritt, Jr.; superintendent eastern division, D. W. Sanborn; local agent, John F. Phillips; directors, Geo. C. Lord, Nathaniel G. White, Amos Paul, Nathaniel J. Bradlee, James R. Nichols, Wm. S. Stevens, Joseph S. Ricker, Richard Olney, Samuel C. Lawrence, Frank Jones.

Old Colony.

All railroads in southern Massachusetts, east of the Boston & Providence, are operated by, or are branches of, the Old Colony. It has three lines, known as the Main Line, Northern Division and Cape Cod Division. The main line of the Northern Division extends from Taunton to Fitchburg, and reaches Lowell by the Lowell and Framingham branch from South Framingham. The total number of miles of road operated by the Old Colony is 475, and the road is equipped with 127 engines, 283 passenger and baggage cars, and 3040 merchandise, platform, gravel and coal cars. The number of miles operated by the Northern Division is 102. The officers of the road are as follows: President, Charles F. Choate; general manager, J. R. Kendrick; treasurer, John M. Washburn; superintendent, Northern Division, Isaac N. Marshall; directors, Charles F. Choate, Frederick L. Ames, Thomas J. Borden, John S. Brayton, Samuel C. Cobb, Uriel Crocker, Thomas Dunn, George A. Gardner, Charles L. Lovering, William J. Rotch, John J. Russell, Nathaniel Thayer, Royal W. Turner. The daily number of through trains to and from Lowell is 3, and 4 locals each way daily between Lowell and Chelmsford.

Lowell Horse Railroad Company.

This street railway was chartered in 1863 with a capital of \$100,000, and it was opened to travel March 1, 1864. The line, which has been extended several times to meet public demand, now consists of about six miles of track, and the suburbs of Belvidere, the Highlands, Centralville, Pawtucket and the Fair Grounds are connected. The number of men permanently employed is 45, the number of horses 110, using 28 cars. William E. Livingston is the president and J. A. Chase secretary, treasurer and superintendent. Mr. Chase, the present efficient and popular superintendent, was appointed in 1876, when there were upon the line only 11 cars, 57 horses and 30 men. To the energy and executive ability of Mr. Chase the prosperity of the road is greatly due.

COUNTY OFFICES AND BUILDINGS.

The county buildings located in Lowell are the Court House and Jail. The Court House is situated on Gorham street, and is a substantial building, admirably adapted to court purposes. The Northern Middlesex District Registry of Deeds is located here, Capt. Joseph P. Thompson being the register. The Jail is located on Thorndike street, and is a handsome building of granite. Capt. Henry G. Cushing, sheriff of Middlesex county, is the jailer, and Chas. F. Urann and Isaac B. Pendergast are the turnkeys. The deputy sheriffs residing in Lowell are the veteran Jefferson Bancroft and George F. Stiles.

Courts are held in Lowell as follows:

Supreme Judicial Court—Jury term, third Tuesday in April.

Superior Court—Civil term, second Monday of March and first Monday of September. Criminal term, third Monday of October.

Probate Court—Third Tuesday of January, March, May, July, September and November.

Court of Insolvency—At times appointed by the probate judges.

UNITED STATES OFFICES.

The Post Office is, of course, the chief government establishment in Lowell. It is located in Hildreth building, near the junction of Central and Merrimac streets. The post office moved into this building on its completion, May 1st, 1883.

The present postmaster is Col. Albert A. Haggett, who was appointed by President Cleveland. vice Edward T. Rowell, resigned, Oct. 24, 1885, and assumed his duties Nov. 1, 1885.

James H. Pinder, who has been in the office since Jan. 1, 1864, is still assistant postmaster. Edwin H. Cooke is in charge of the money order department, Miss Mary F. Carpenter of the registered letter department, Dennis J. Devine of the box department, John B. Miller, Samuel M. Bell and John F. Watson are the mailing clerks, Guy O. Huntoon and Hiram Gordon are stamp and envelope clerks. The following are the letter carriers: Geo. H. Richardson, superintendent; Edwin A. Howe, Frank G. Rundlett, Henry J. Davis, Chas. A. Holden, Chas. A. York, Ozro A. Wiggin, Wm. H. Wood, Geo. W. Bulmer, Edwin A. Cheney, Samuel Broughton, John A. Garland, Joseph Pecard, John Kerr, John F. Donnelly, Albion S. Ashworth, Fred. H. Taylor, Julian A. Richardson, John J. Donnelly, John Pedrick. The special delivery service, which is under the charge of the superintendent of letter carriers, was organized Oct. 1, 1885. James E. McEntee, Thos. F. McOsker and Harry G. Brown are the carriers.

NEWSPAPERS.

Lowell has five daily newspapers, two published in the morning and three in the afternoon.

THE DAILY COURIER is the oldest, having been established as a daily in 1845. It is an eight-page, six-column paper 29½x41 inches in size, published in the afternoon. The present publishers, Marden & Rowell, have owned the paper since 1867. In politics it is republican. The same publishers issue the Lowell Weekly Journal, a quarto, 34½x47½, published Fridays.

THE DAILY CITIZEN, republican, was established in 1851. It is a folio, 26½x43½, 36 columns, and is published every afternoon by the Citizen Newspaper Company. The American Citizen, weekly, is issued by the same company, Fridays.

THE LOWELL MORNING TIMES, democratic, was established in 1873. It is a folio, 41x26½, 36 columns, and is published by Campbell & Hauscom, who also issue the Weekly Times, Fridays.

THE MORNING MAIL, republican, is published by the Morning Mail Company. It is a quarto, 36 columns, 26x40, and was established in 1879 by Stone, Bacheller & Livingston. At the same office the Saturday Evening Mail is issued.

THE EVENING DEMOCRAT is a quarto, 24 columns, 31x22, and was established in 1885 by Thomas F. Byron, its present proprietor and publisher.

THE VOX POPULI, published Wednesday, was established in 1841. It is a folio, 36 columns, 43½x29. The Saturday Vox Populi was established in 1869, same size. The publishers are S. W. Huse & Co. In politics it is republican.

THE WEEKLY SUN, democratic, is published by Harrington Brothers, who established it in 1878. It is a quarto, 30x44, 48 columns, and is published Saturday.

LOWELL TELEPHONE EXCHANGE.

This exchange is a part of the Lowell division of the New England Telegraph and Telephone Company. The Lowell division embraces the Lowell, Nashua, N. H., Fitchburg, Concord and Ayer exchanges. The Lowell exchange was established in 1878, and now has about 500 subscribers, including the neighboring towns of Billerica, Chelmsford, Dracut, Tewksbury, Tyngsborough, Westford, and Pelham, N. H. James Menzies is manager, and Miss Etta Corson chief operator.

LOCAL INSURANCE COMPANIES.

Lowell Mutual Fire Insurance Company, incorporated 1832. James C. Abbott, president; Edward T. Abbott, secretary and treasurer; J. C. Abbott, Charles A. Stott, Amos B. French, J. K. Fellows, Wm. P. Brazer, Benj. Walker, Wm. H. Wiggin, Wm. E. Livingston, N. M. Wright, directors. Office No. 40 Central street.

Traders and Mechanics Mutual Insurance Company. Levi Sprague, president; E. M. Tucke, secretary; Levi Sprague, D. S. Richardson, Chas. H. Coburn, Jacob Rogers, Geo. F. Richardson, John F. Kimball, C. C. Hutchinson, Wm. F. Salmon, Henry C. Howe, Samuel T. Lancaster, directors. Office No. 27 Central street.

This company was incorporated in 1848, and now has a total of cash assets amounting to nearly half a million dollars.

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